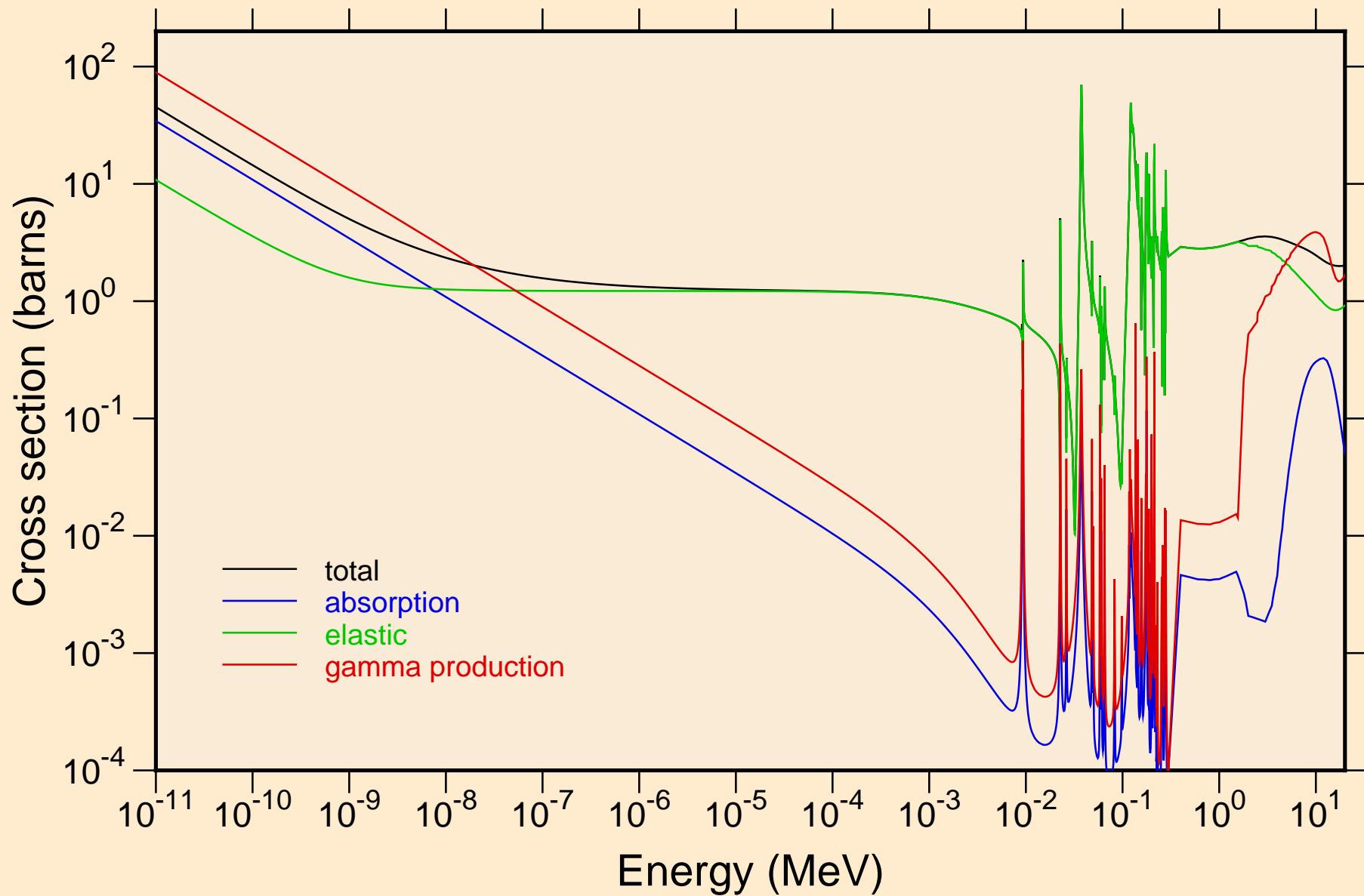
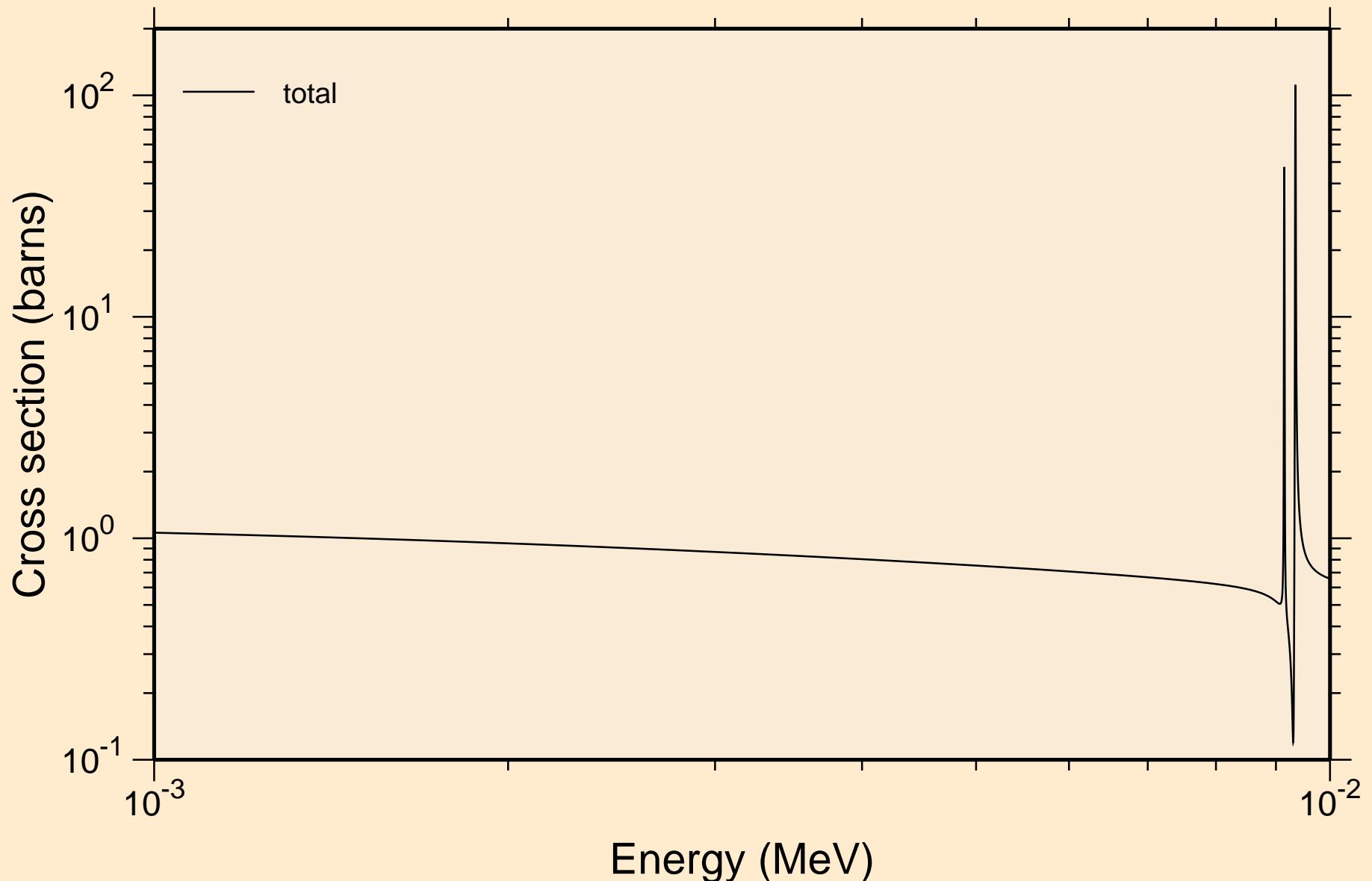


# JENDL-4 CA-42

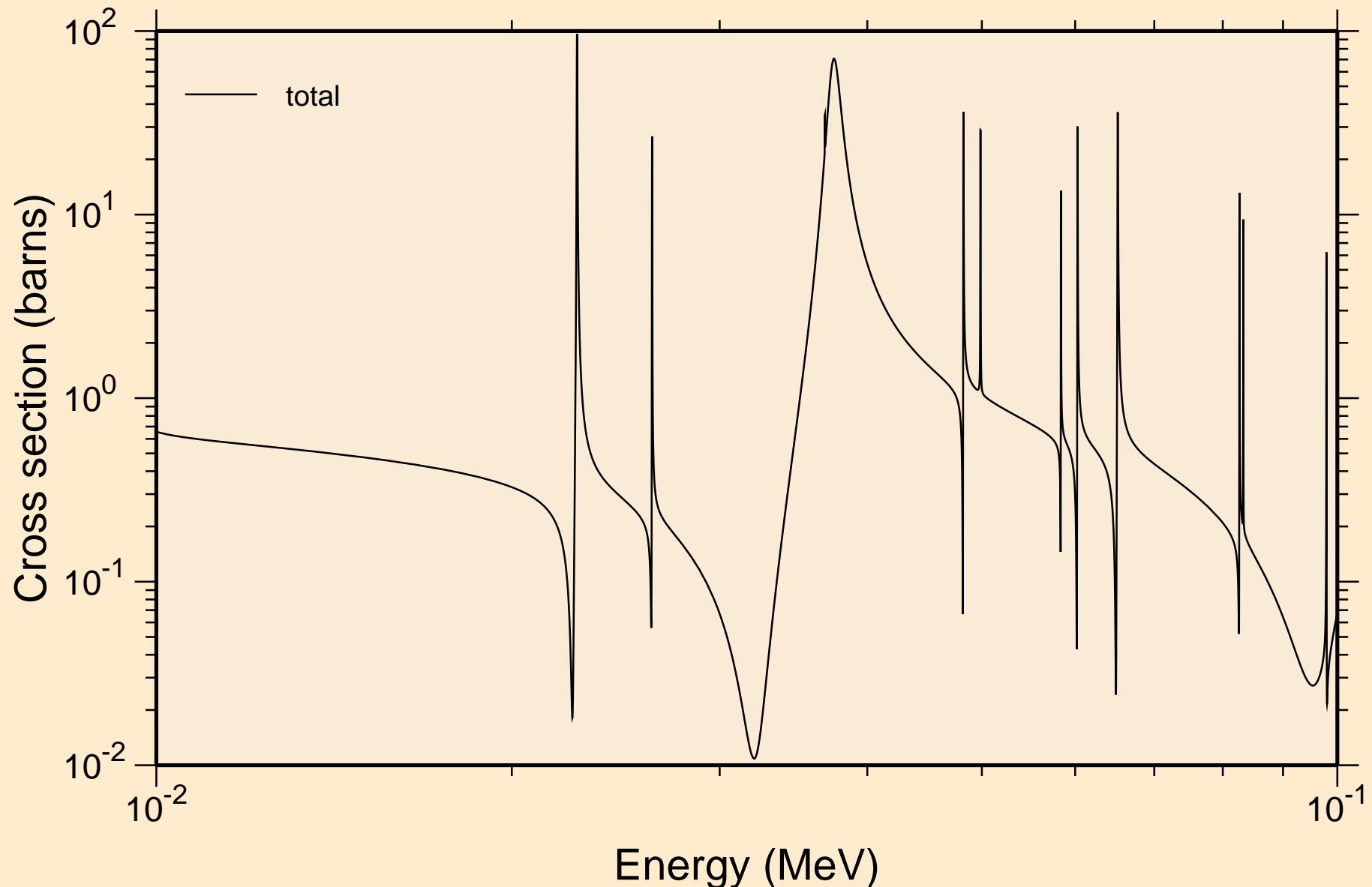
## Principal cross sections



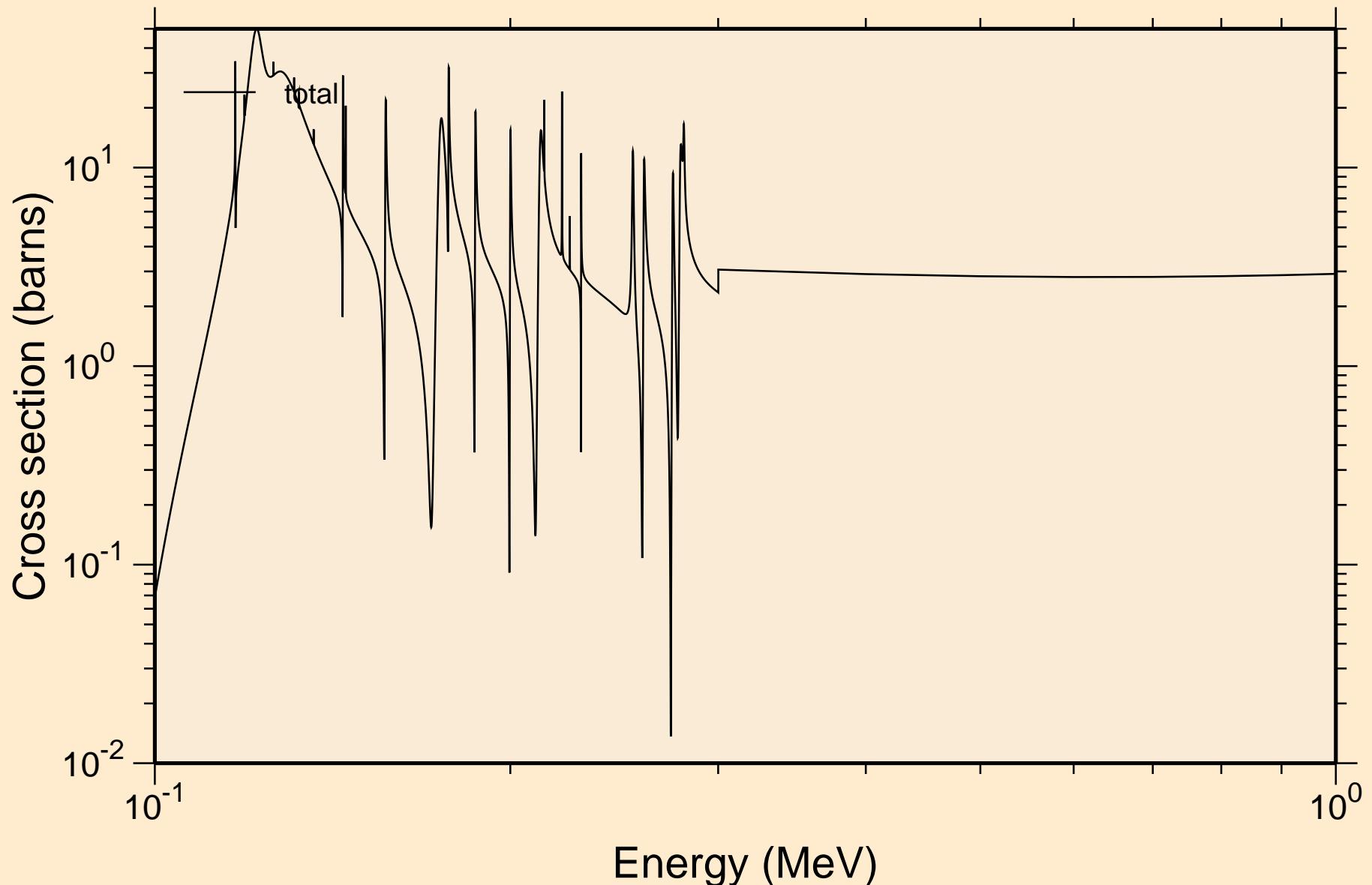
JENDL-4 CA-42  
resonance total cross section



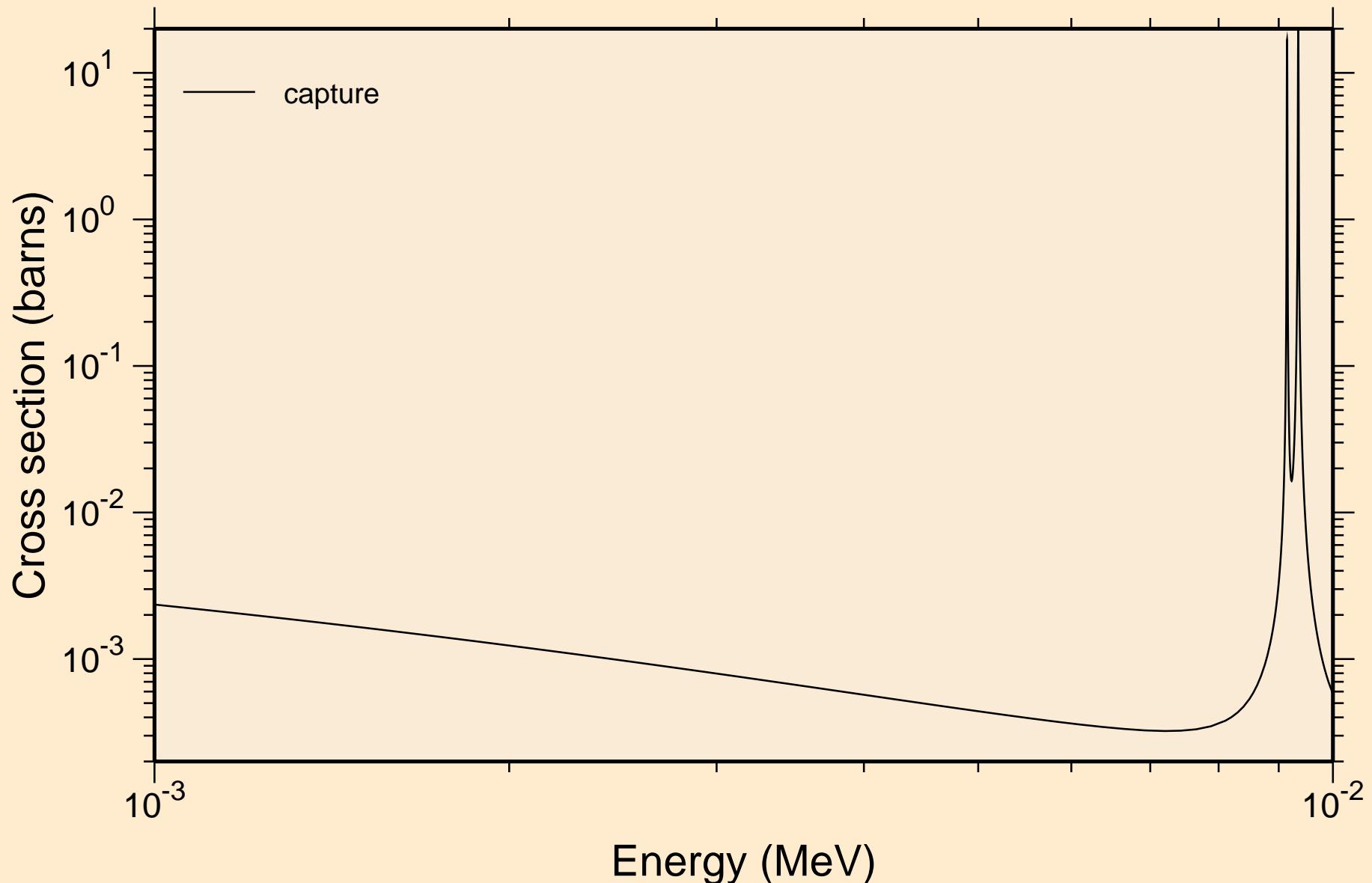
JENDL-4 CA-42  
resonance total cross section



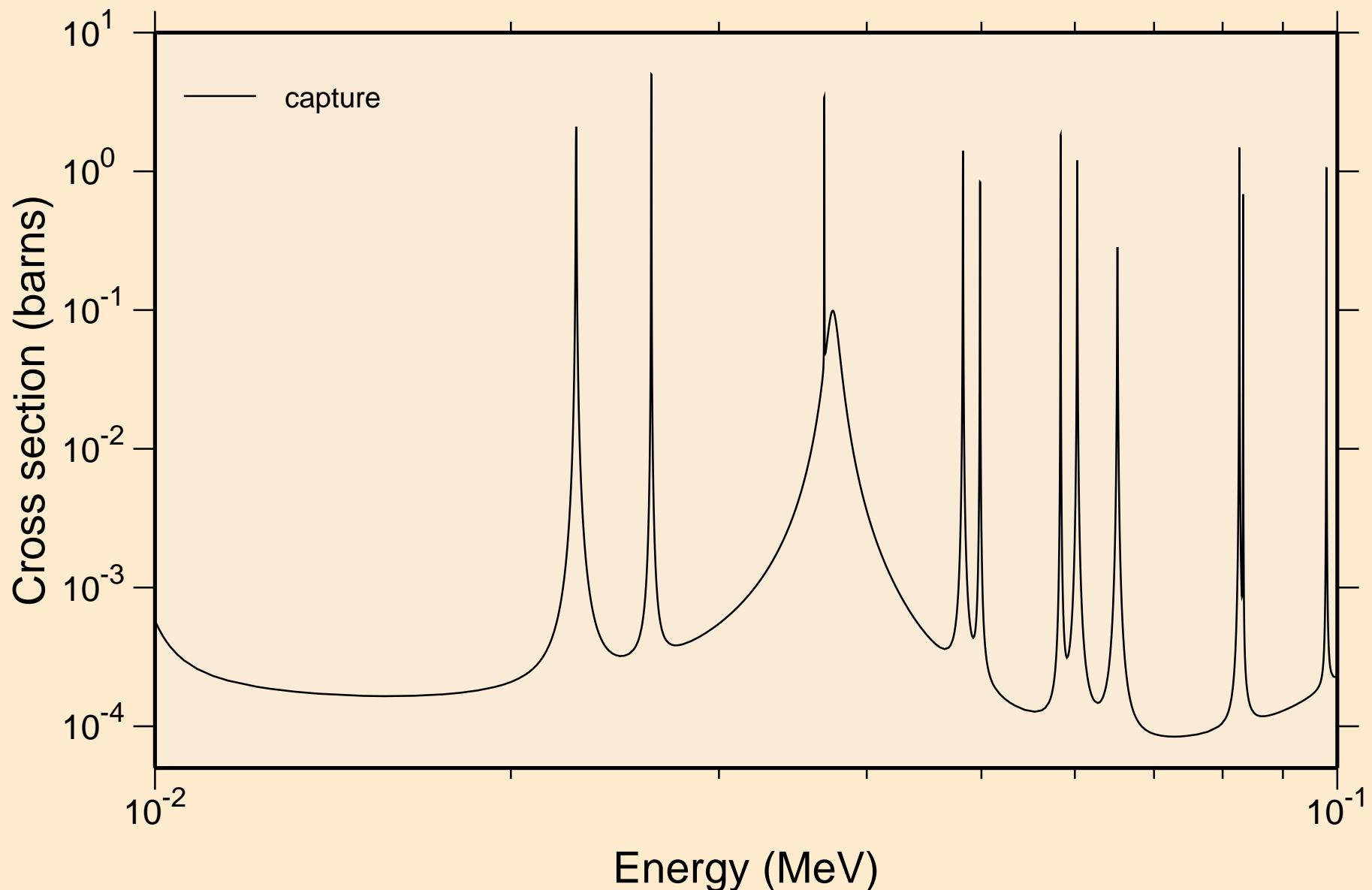
JENDL-4 CA-42  
resonance total cross section



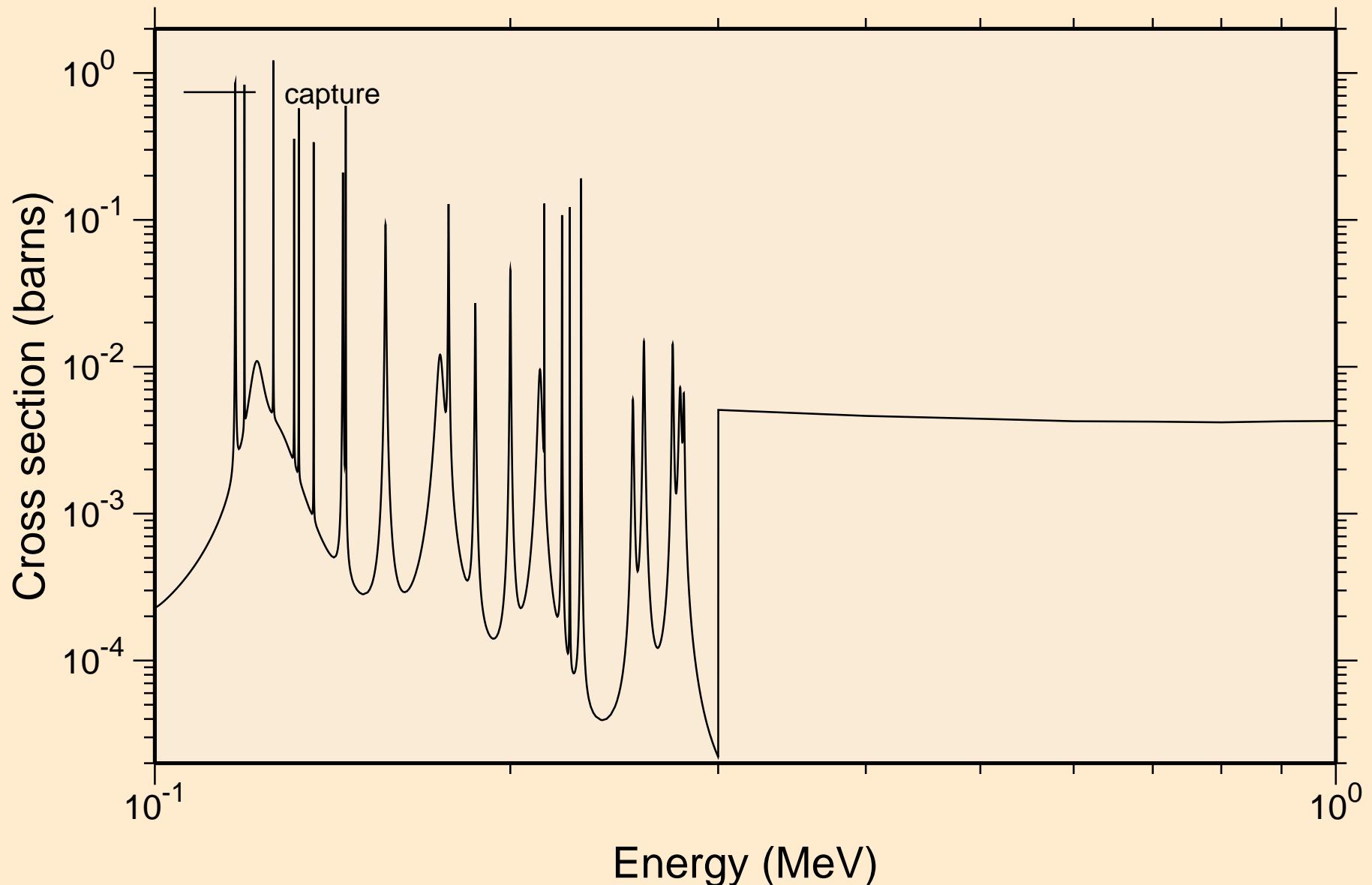
JENDL-4 CA-42  
resonance absorption cross sections



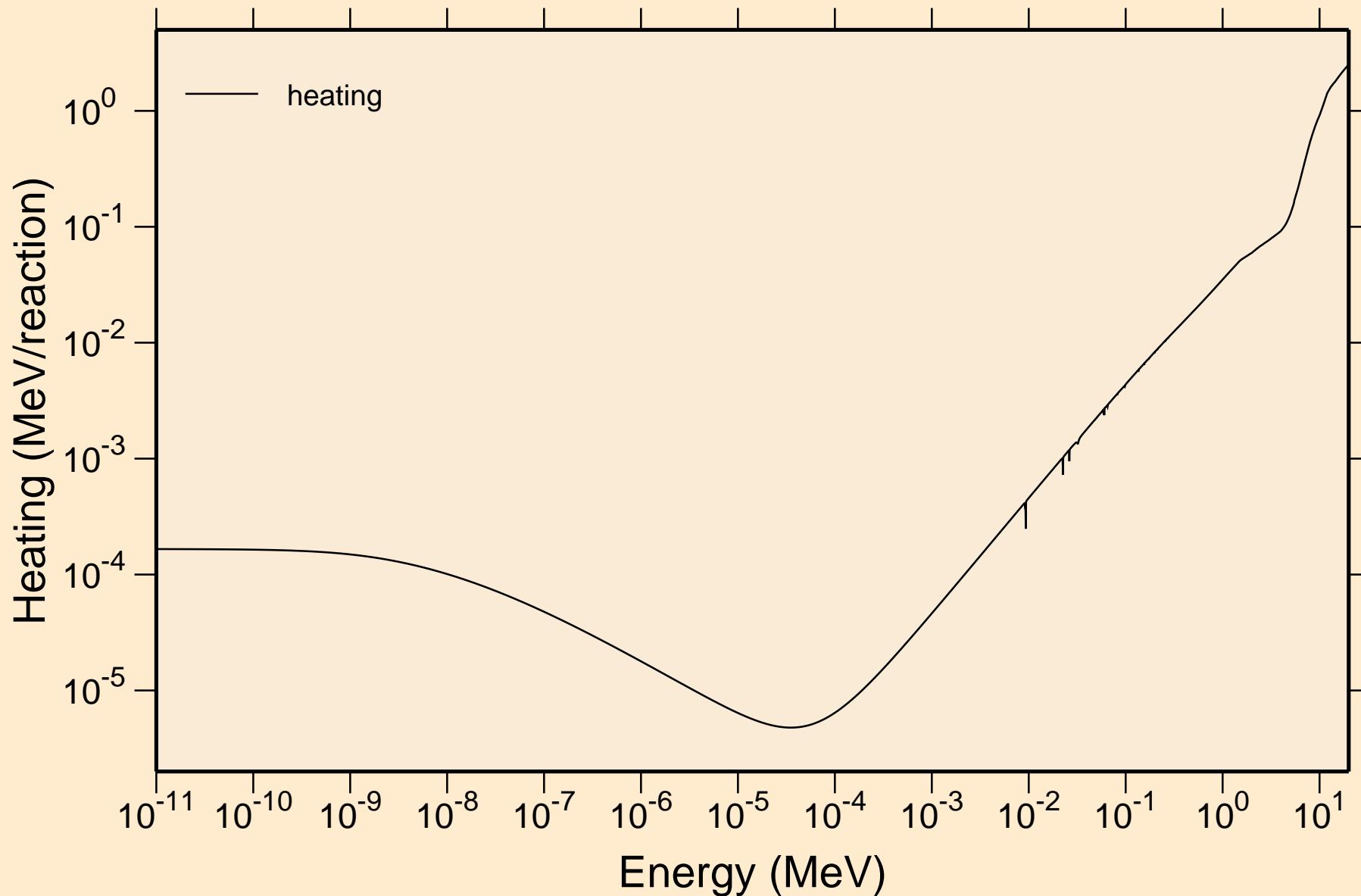
JENDL-4 CA-42  
resonance absorption cross sections



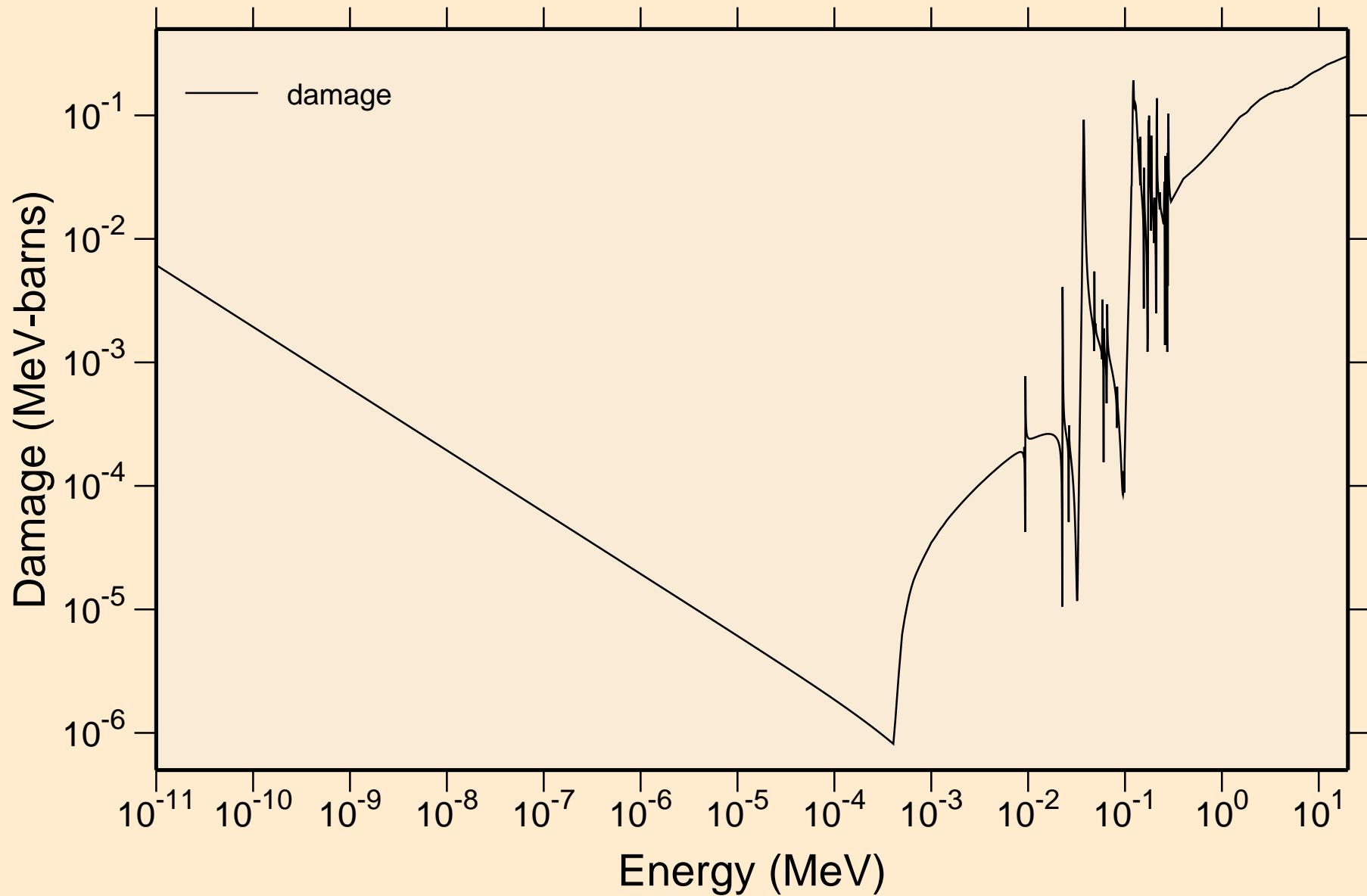
# JENDL-4 CA-42 resonance absorption cross sections



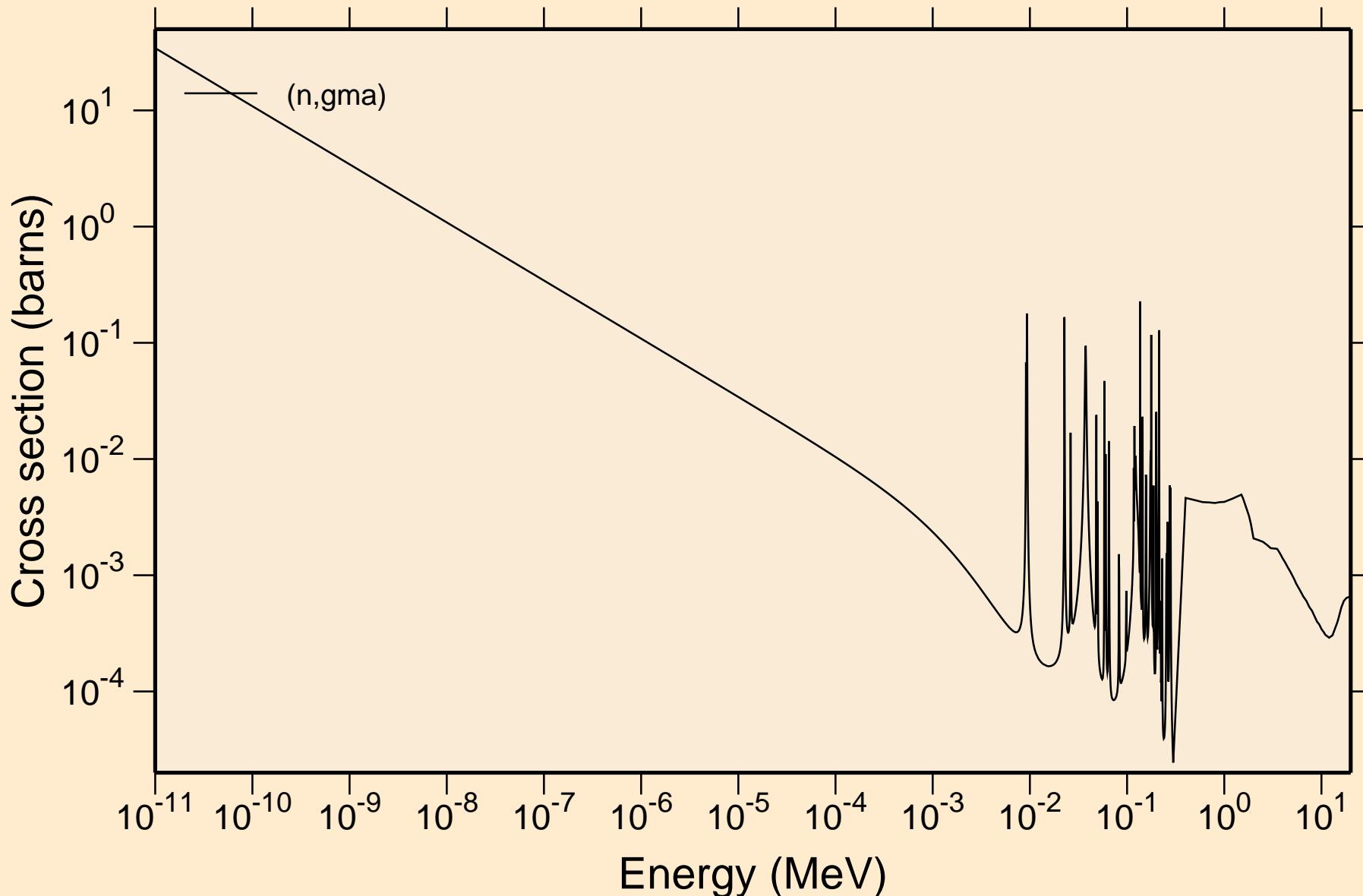
JENDL-4 CA-42  
Heating



JENDL-4 CA-42  
Damage

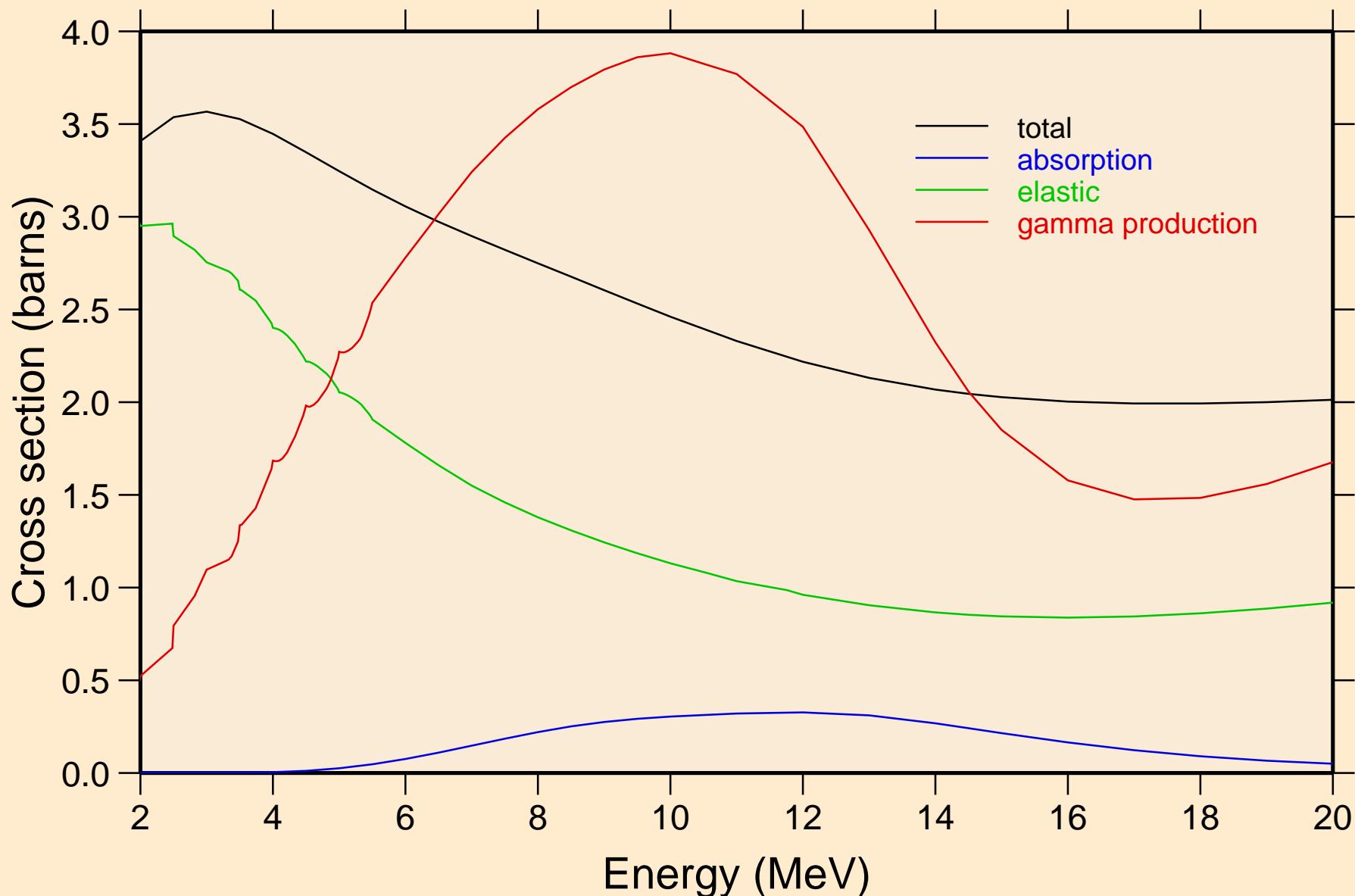


JENDL-4 CA-42  
Non-threshold reactions

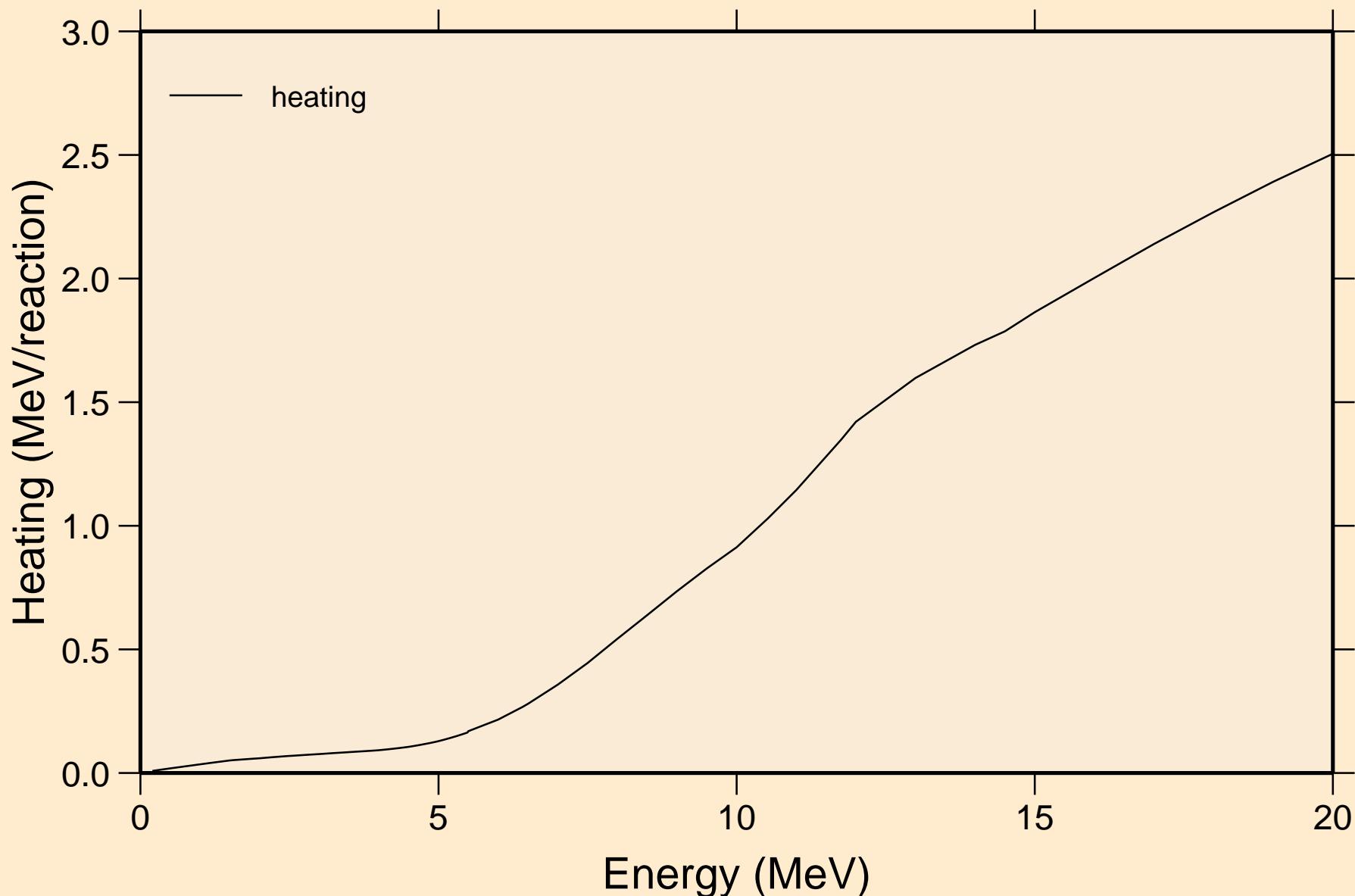


# JENDL-4 CA-42

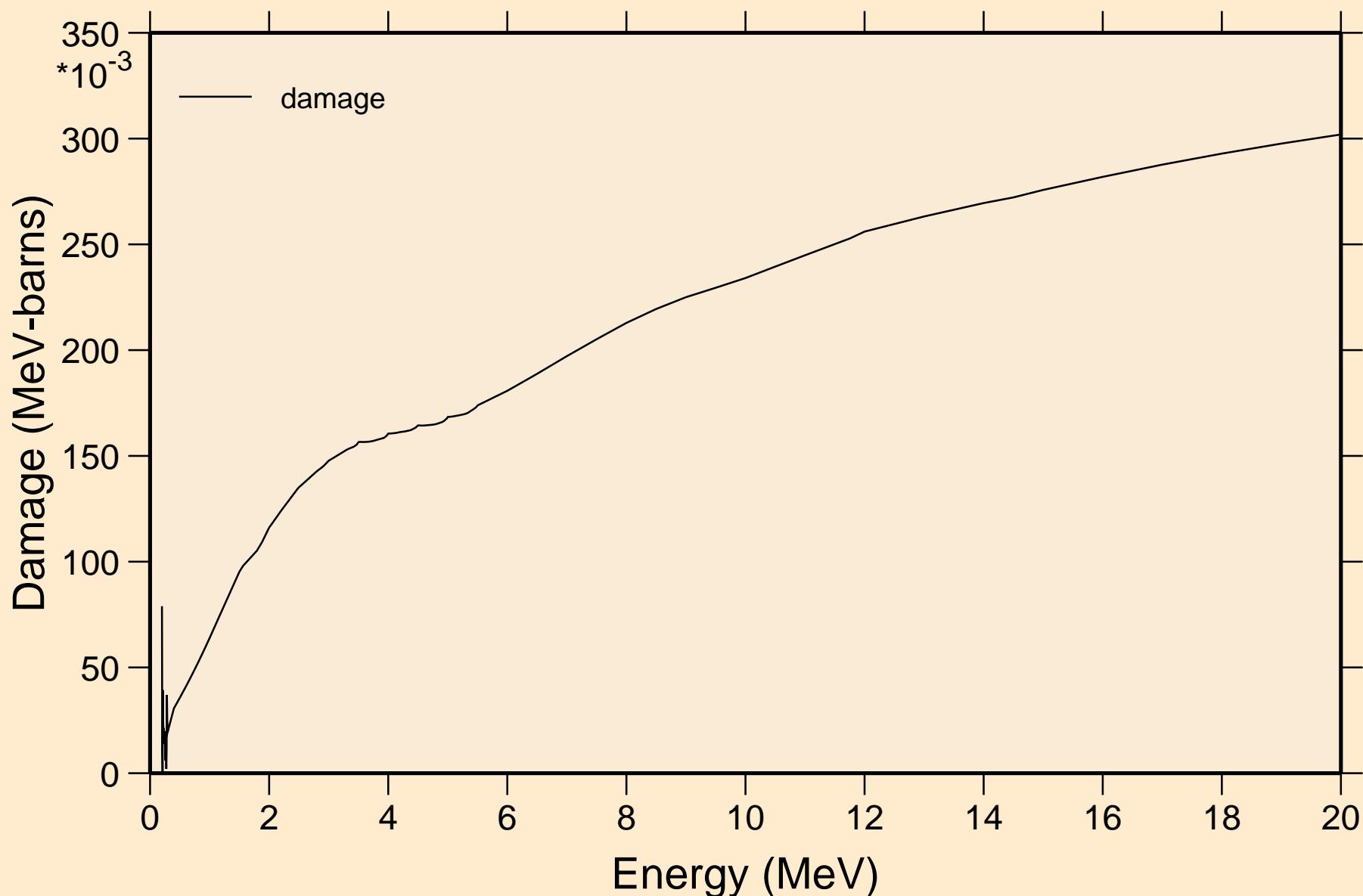
## Principal cross sections



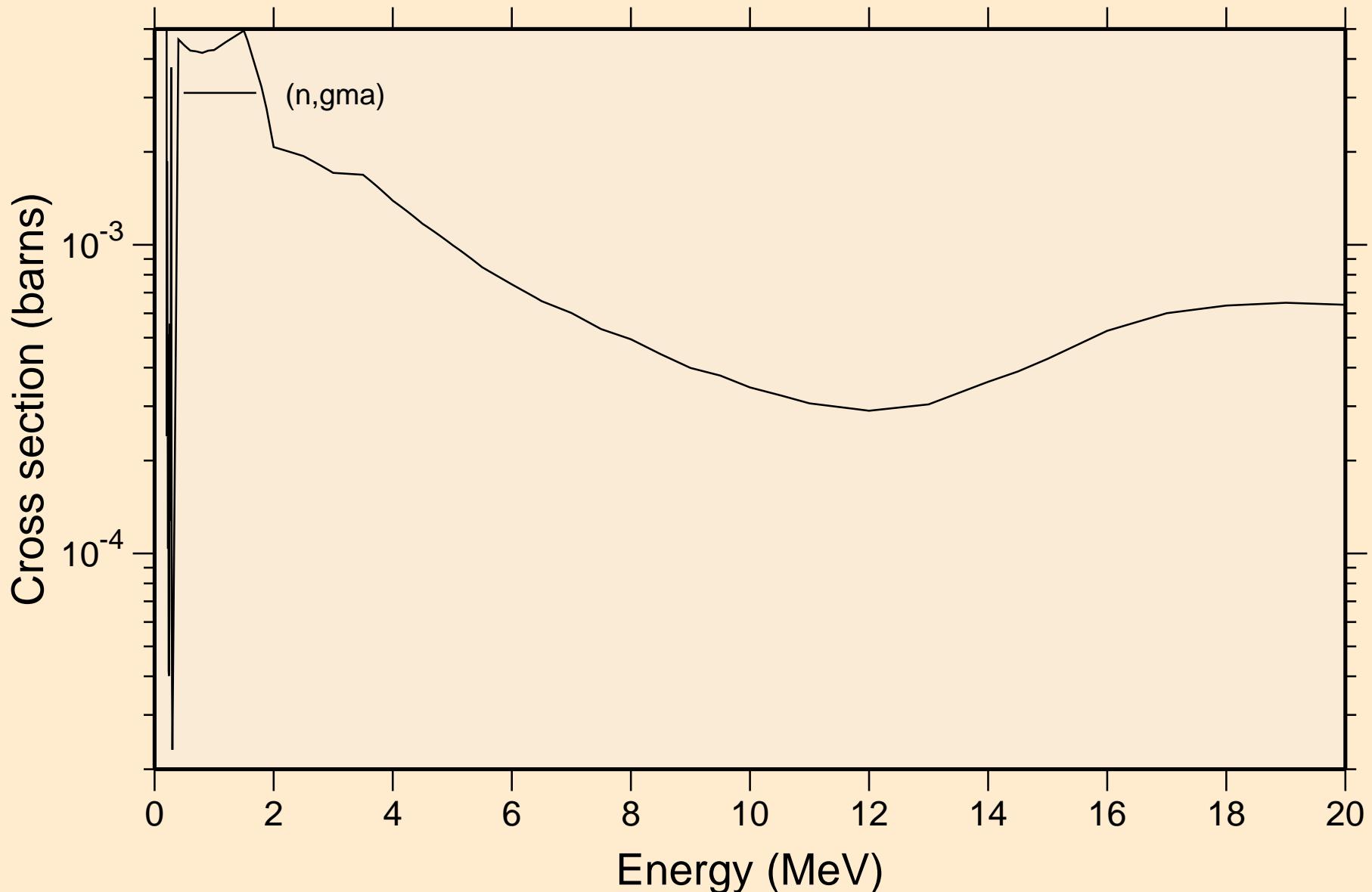
JENDL-4 CA-42  
Heating



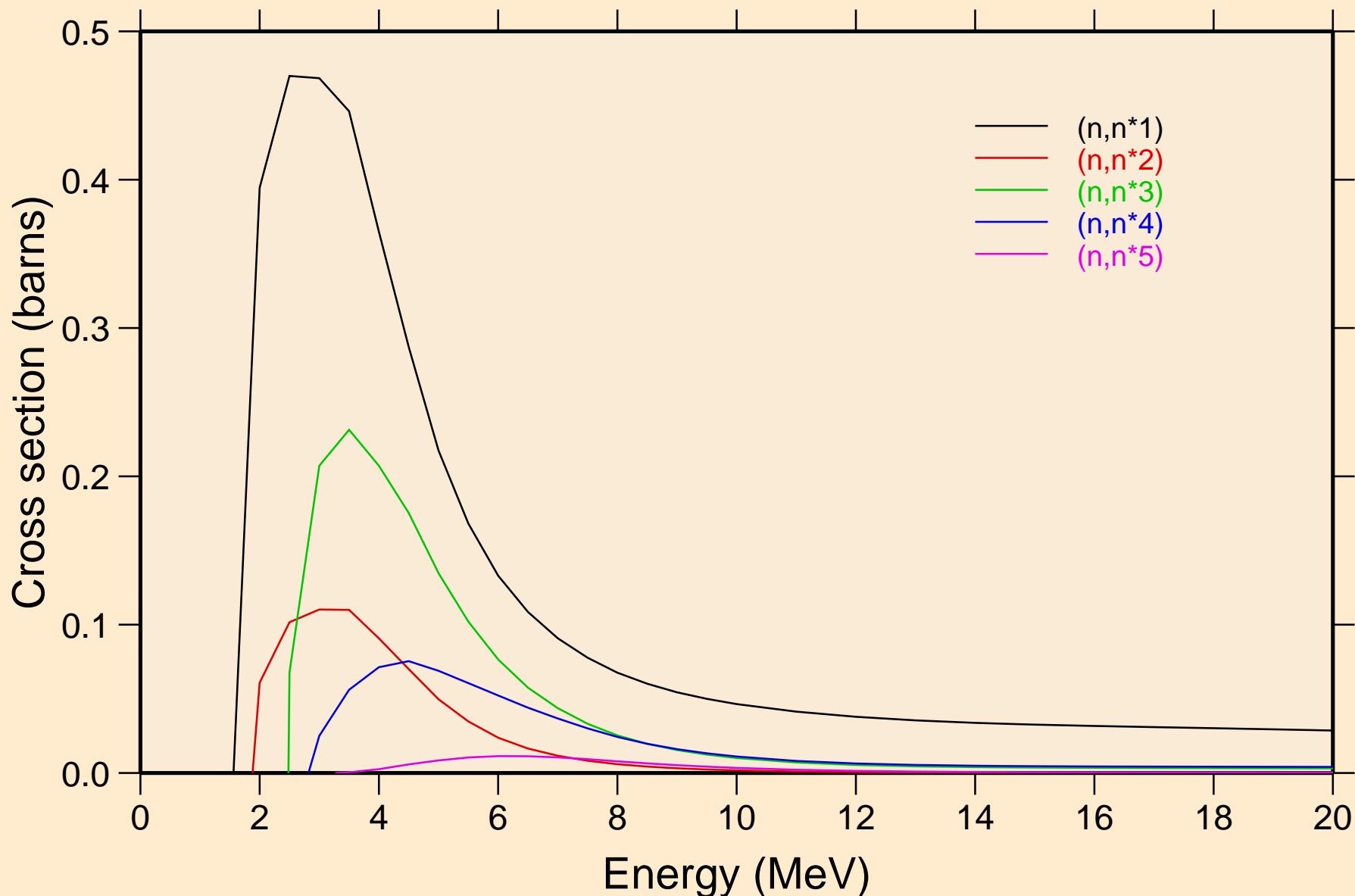
JENDL-4 CA-42  
Damage



JENDL-4 CA-42  
Non-threshold reactions

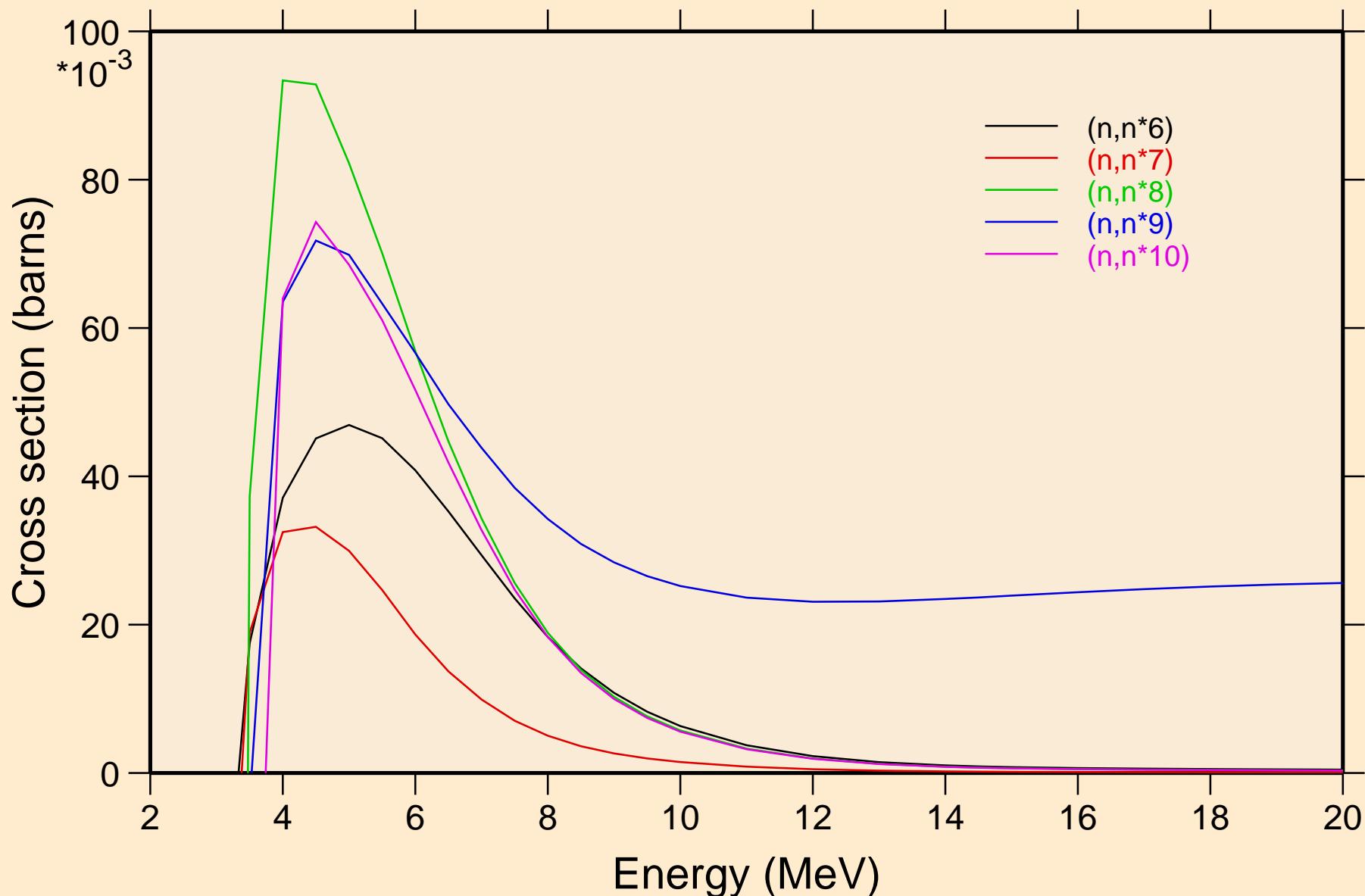


JENDL-4 CA-42  
Inelastic levels

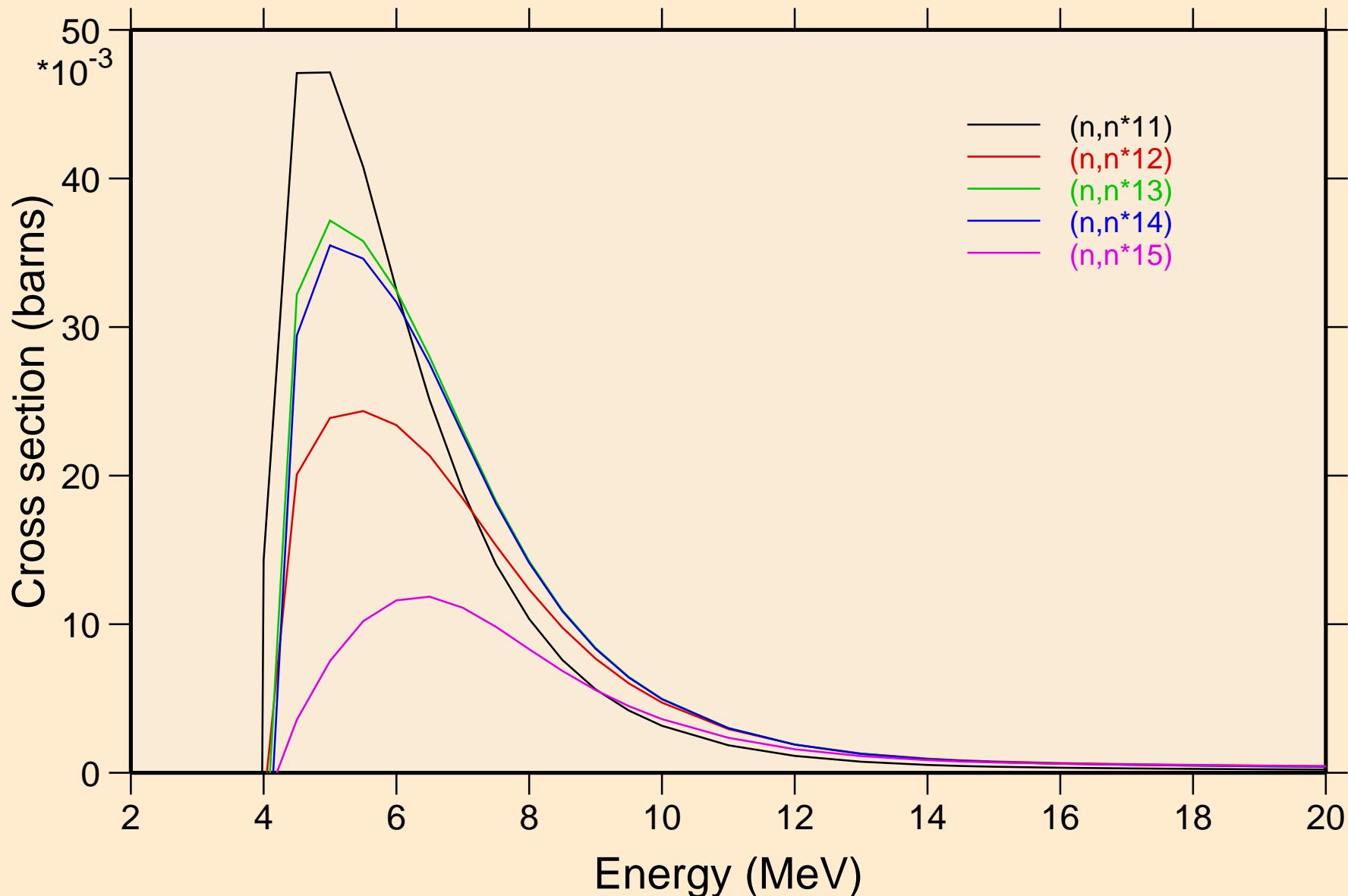


# JENDL-4 CA-42

## Inelastic levels

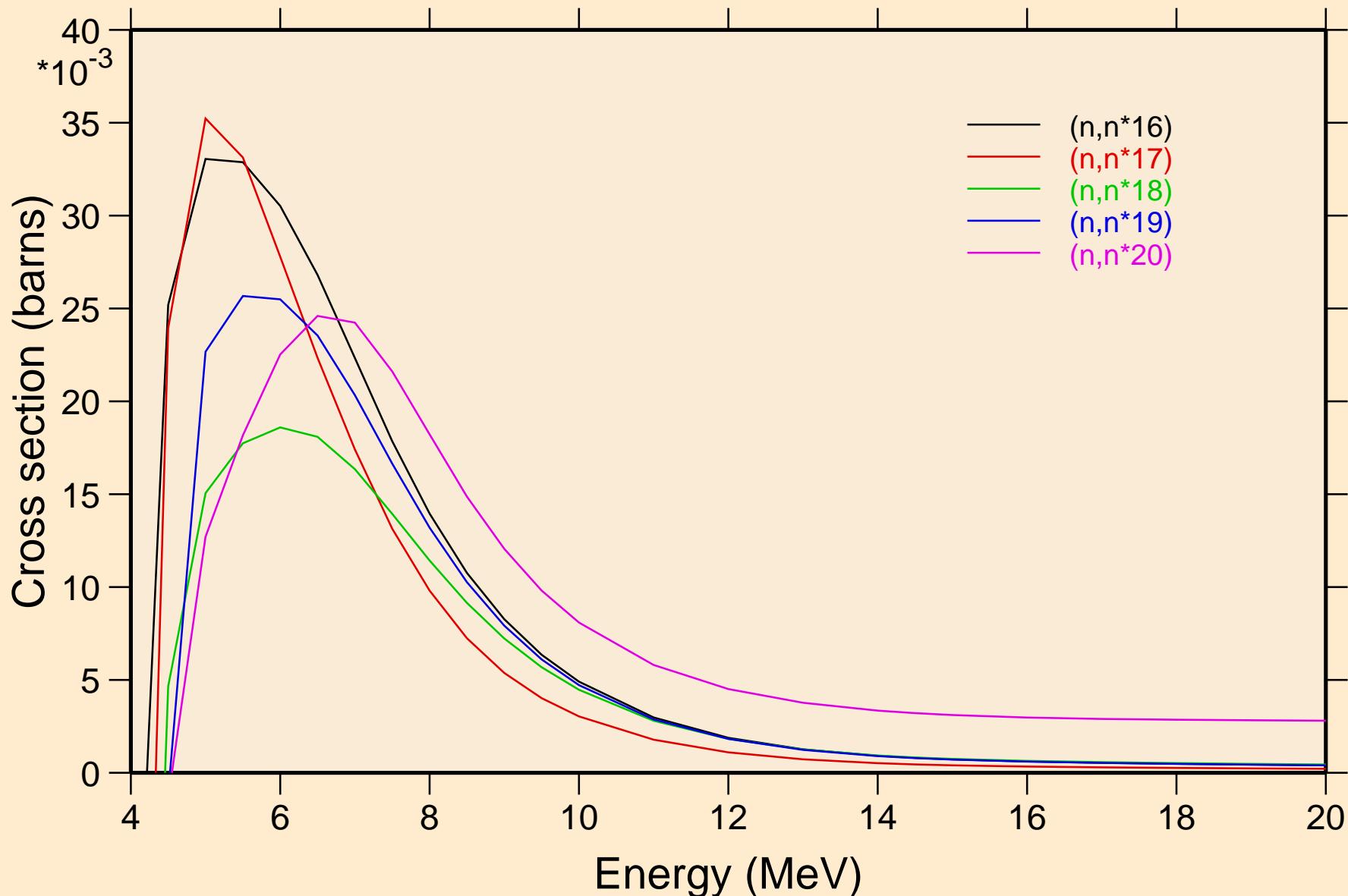


JENDL-4 CA-42  
Inelastic levels



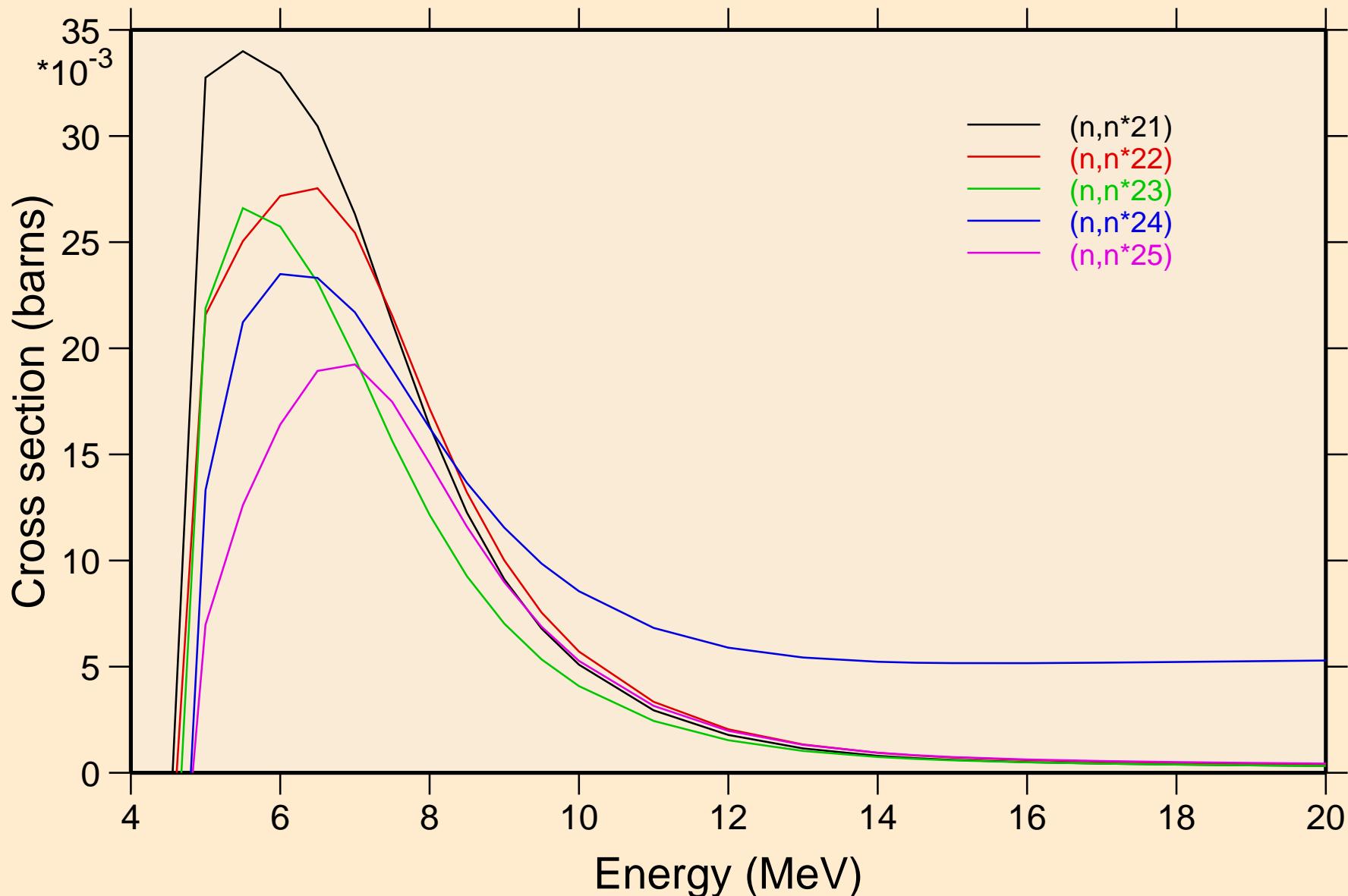
# JENDL-4 CA-42

## Inelastic levels

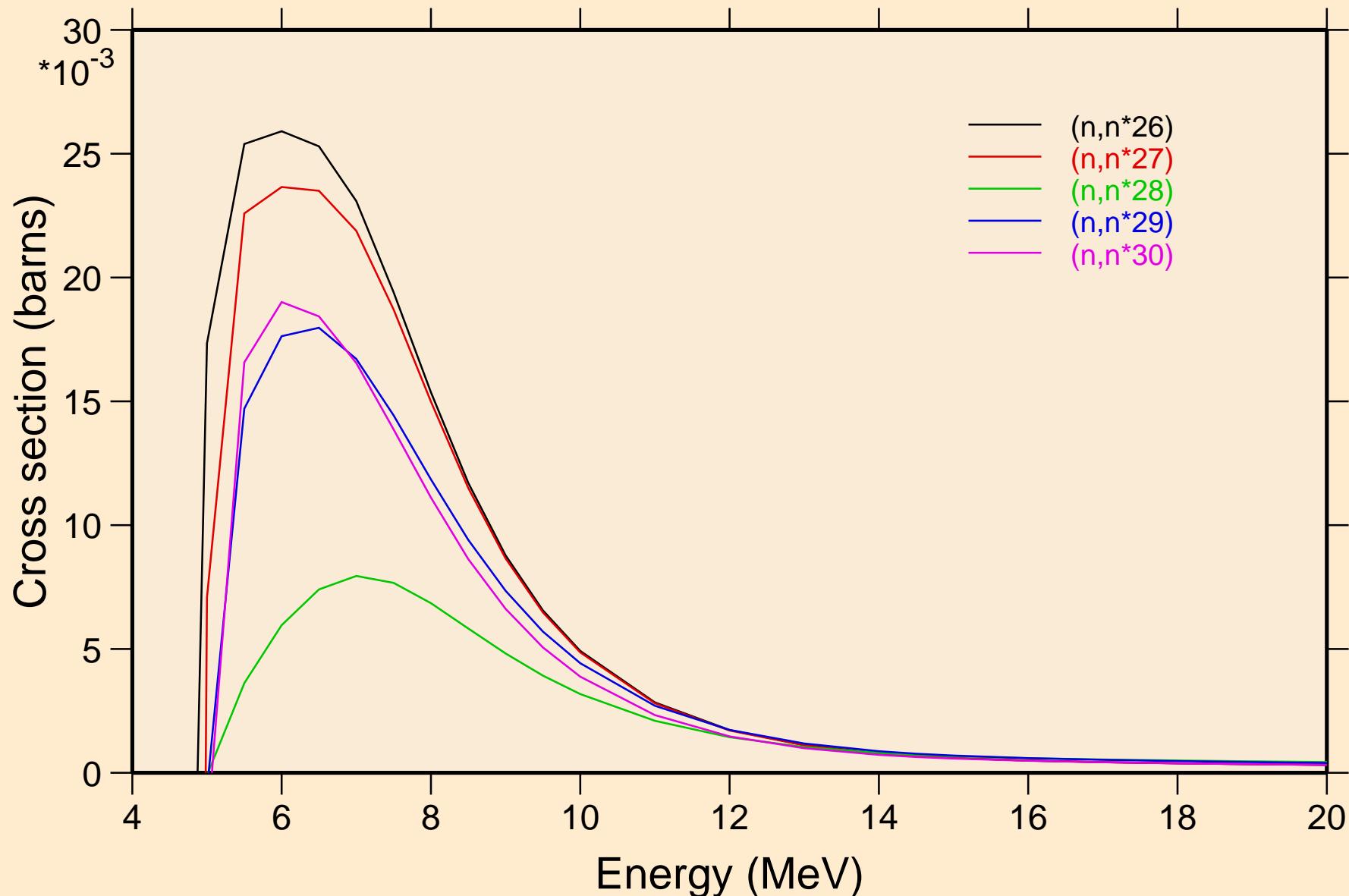


# JENDL-4 CA-42

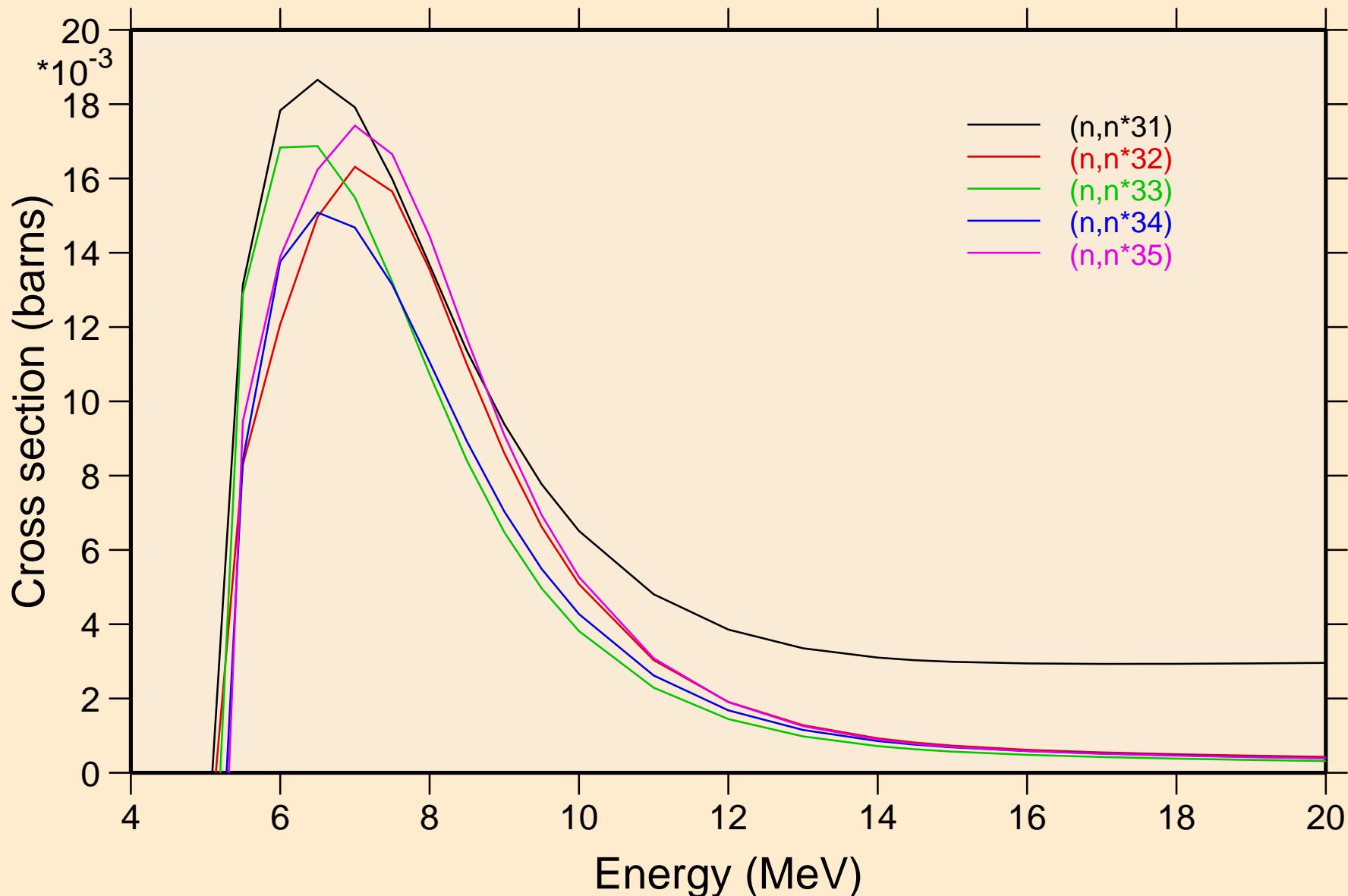
## Inelastic levels



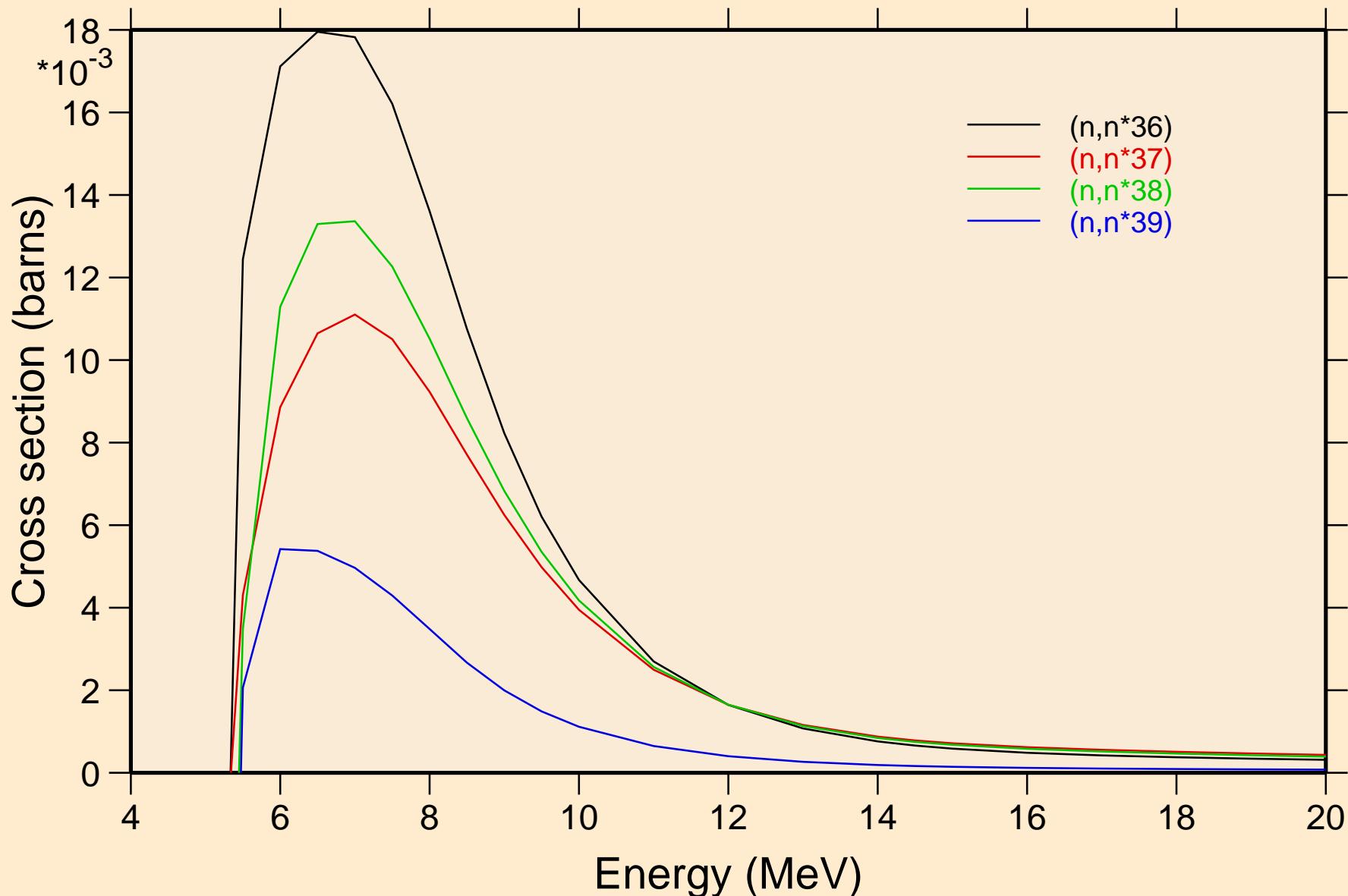
JENDL-4 CA-42  
Inelastic levels



JENDL-4 CA-42  
Inelastic levels

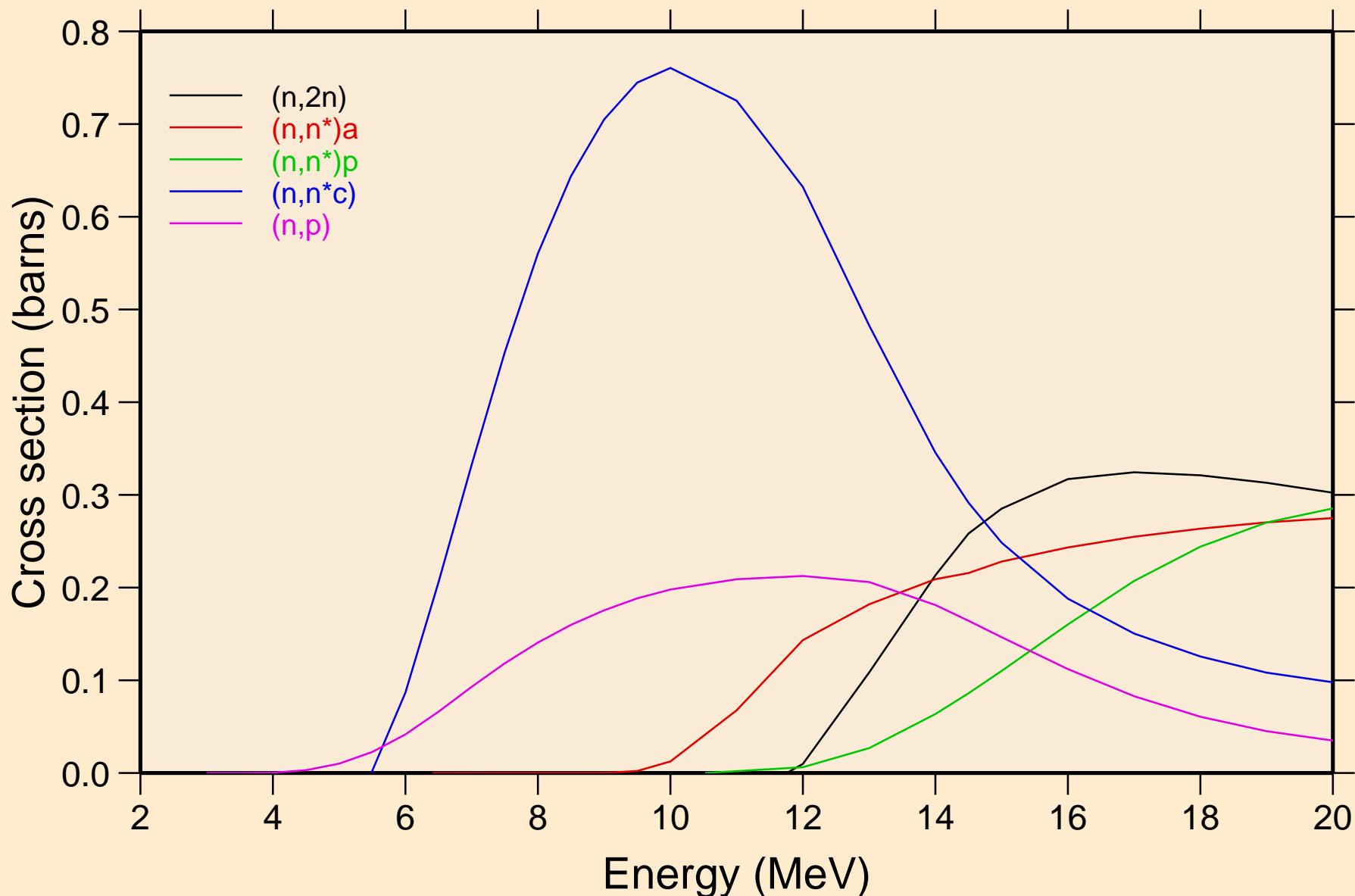


JENDL-4 CA-42  
Inelastic levels

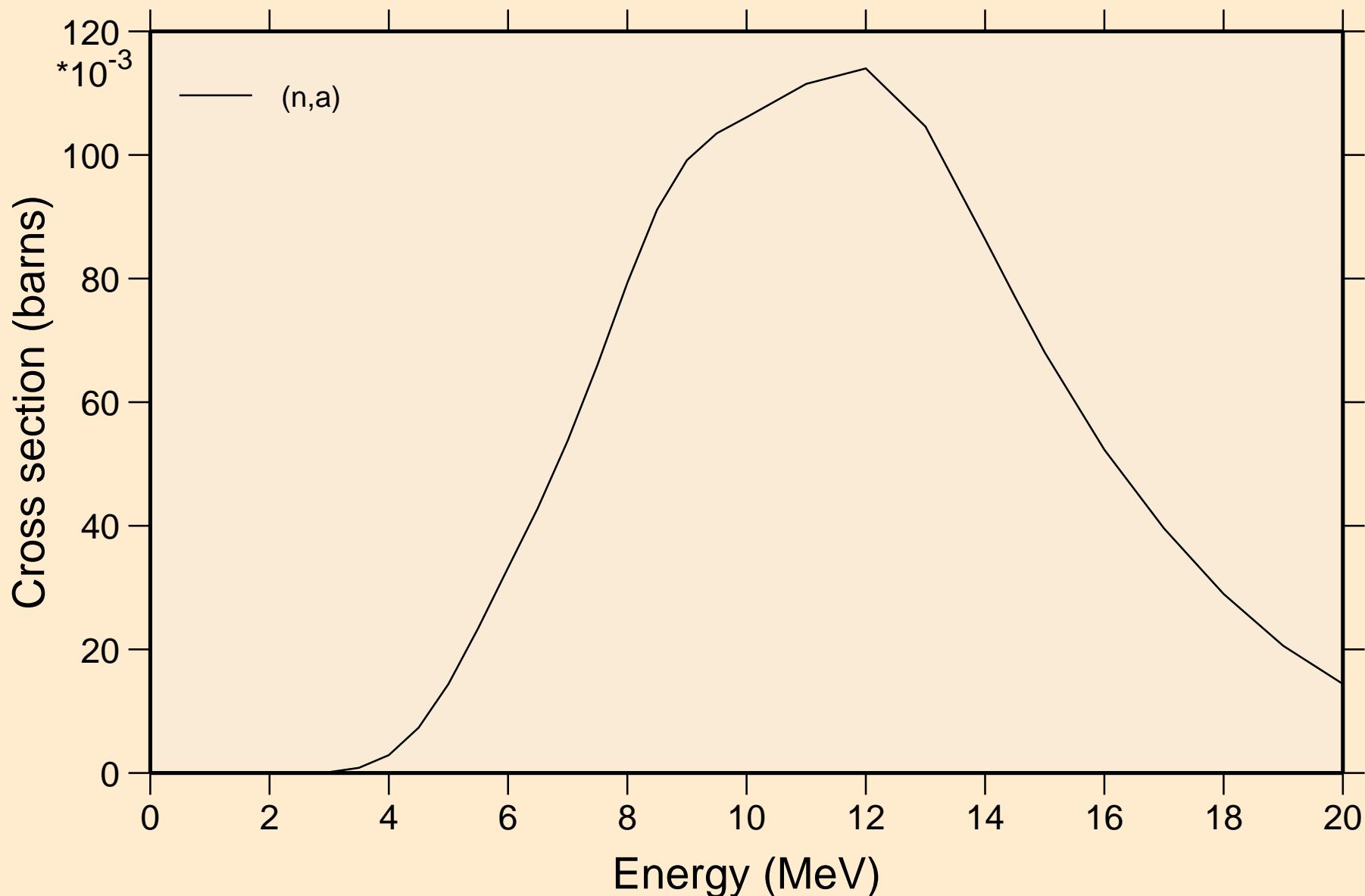


# JENDL-4 CA-42

## Threshold reactions

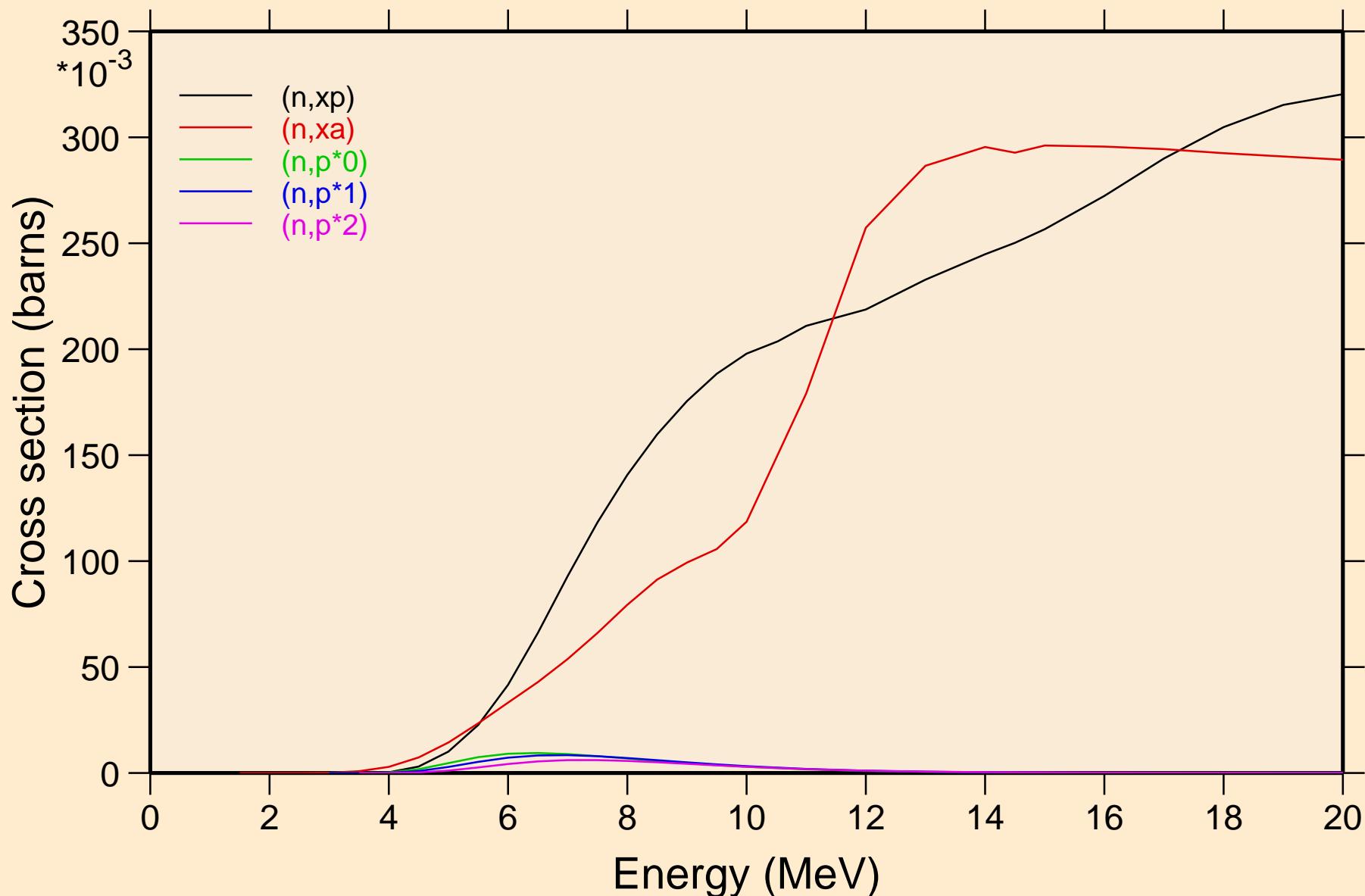


JENDL-4 CA-42  
Threshold reactions



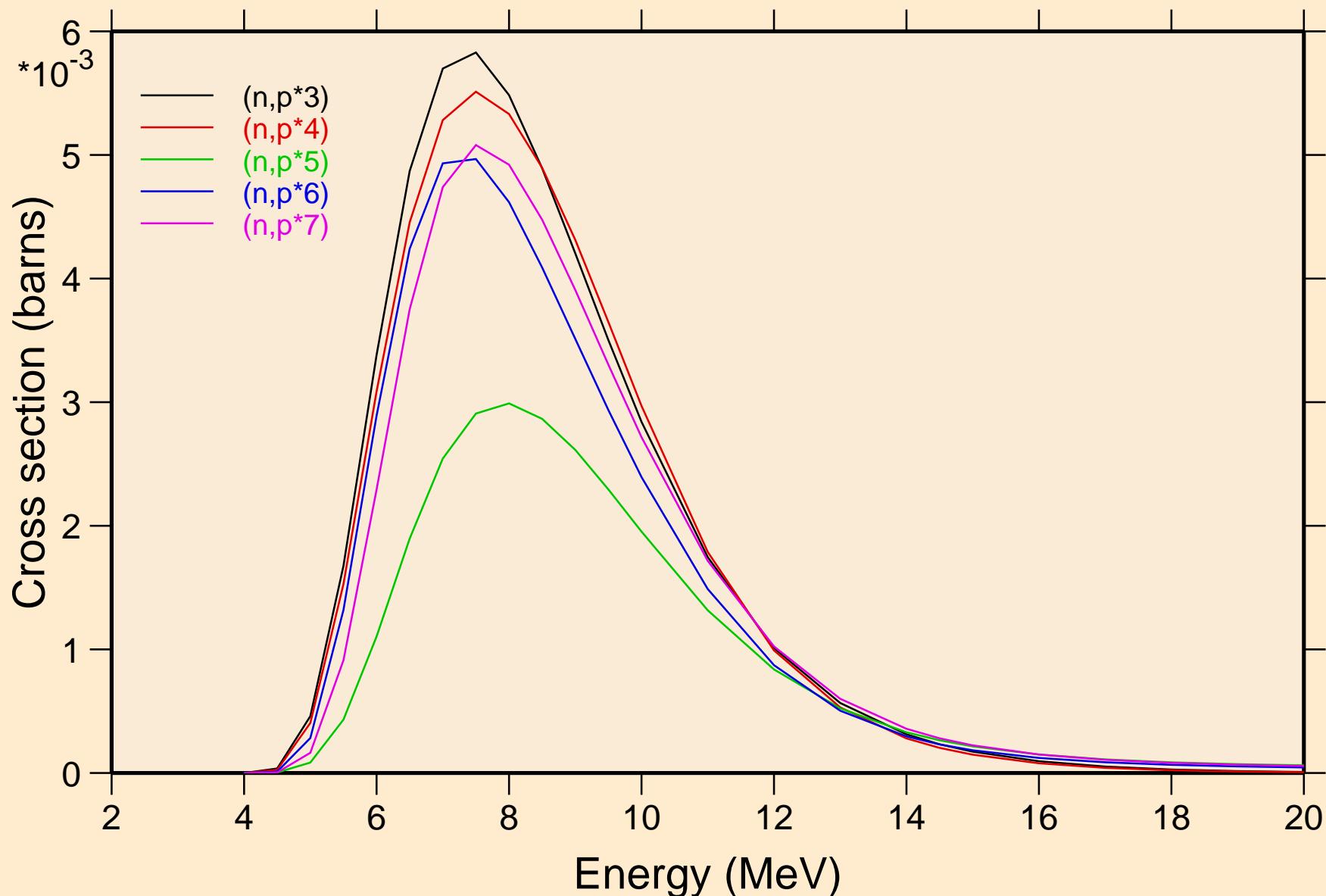
# JENDL-4 CA-42

## Threshold reactions



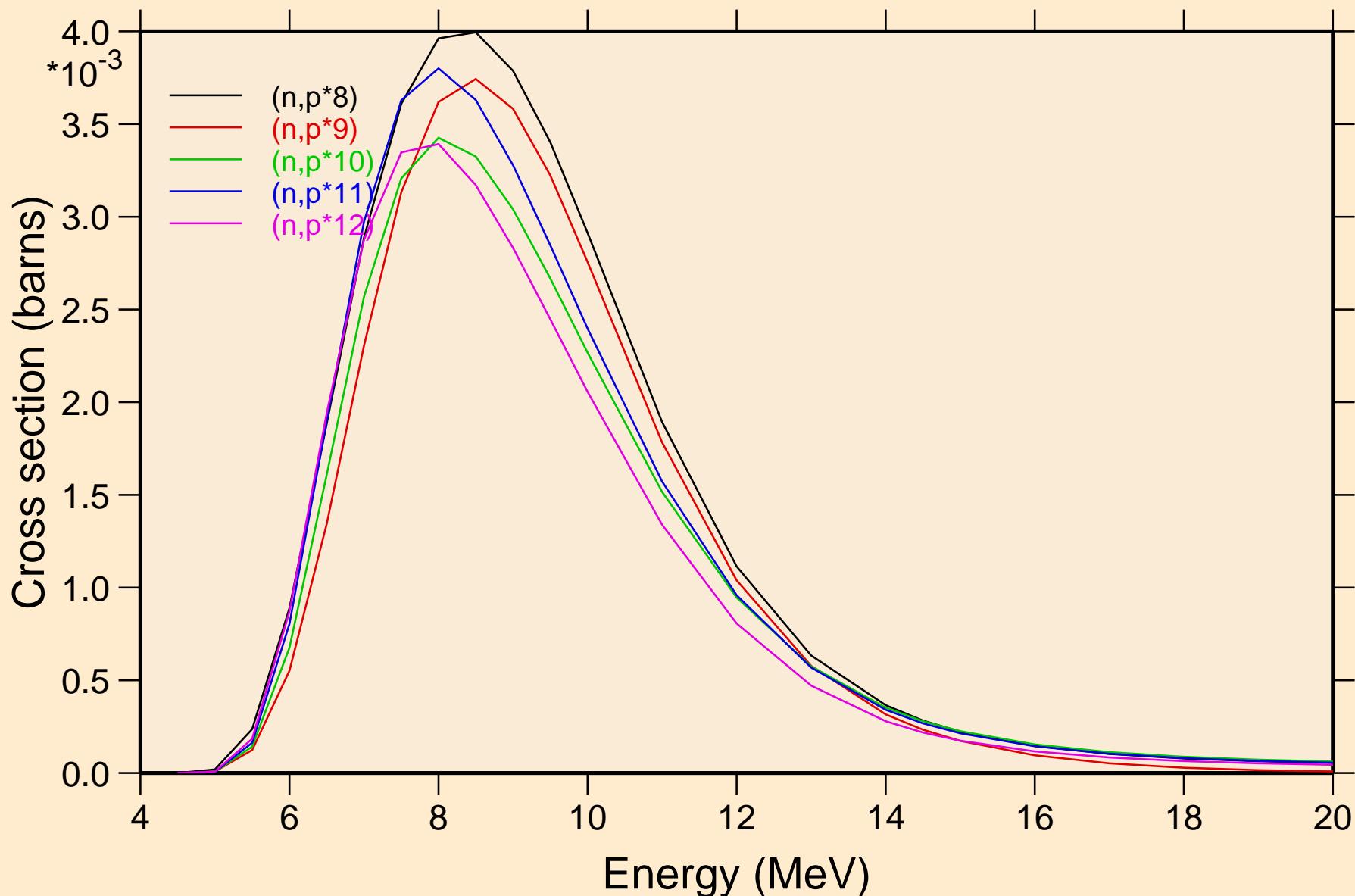
# JENDL-4 CA-42

## Threshold reactions



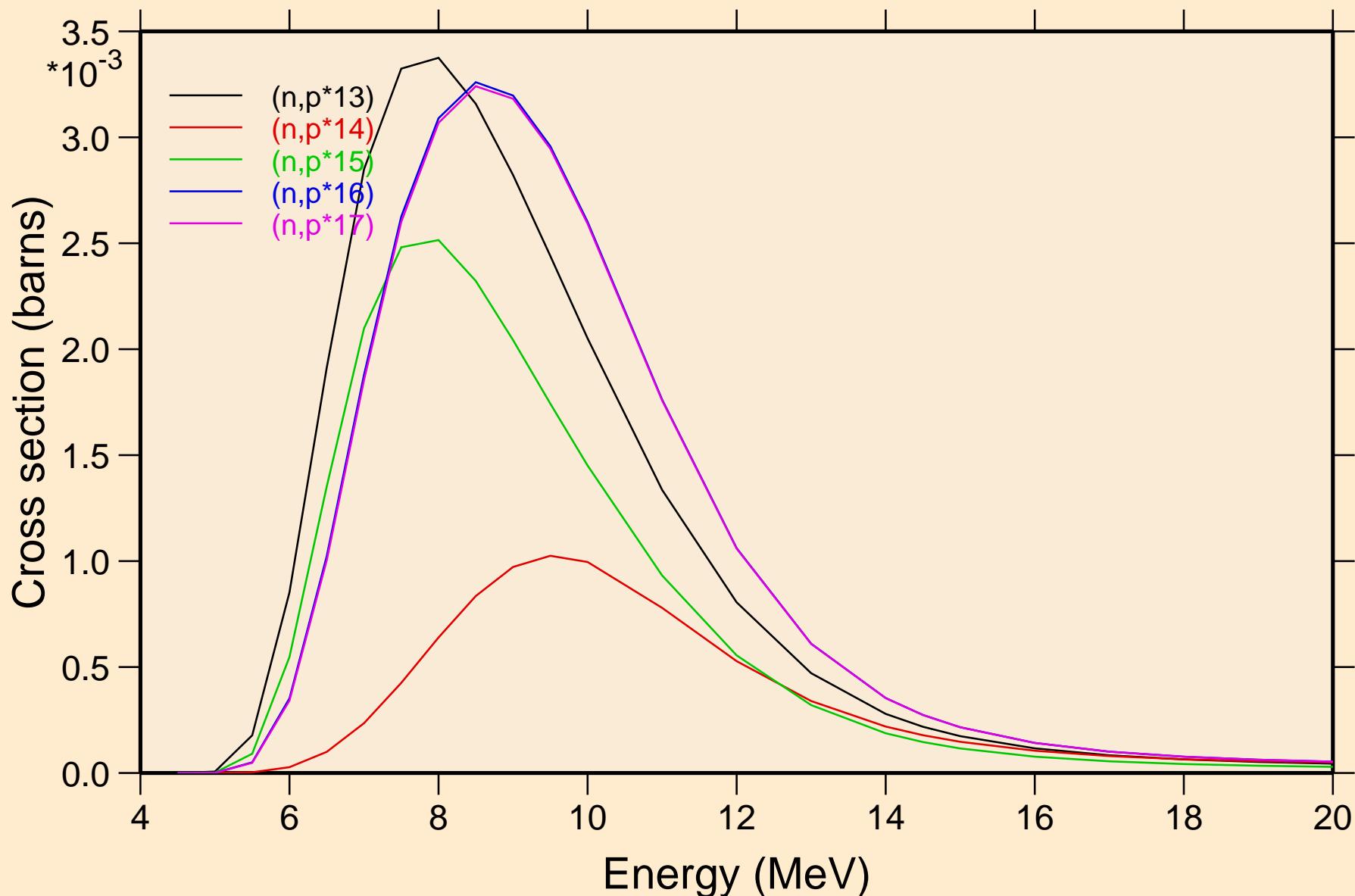
# JENDL-4 CA-42

## Threshold reactions



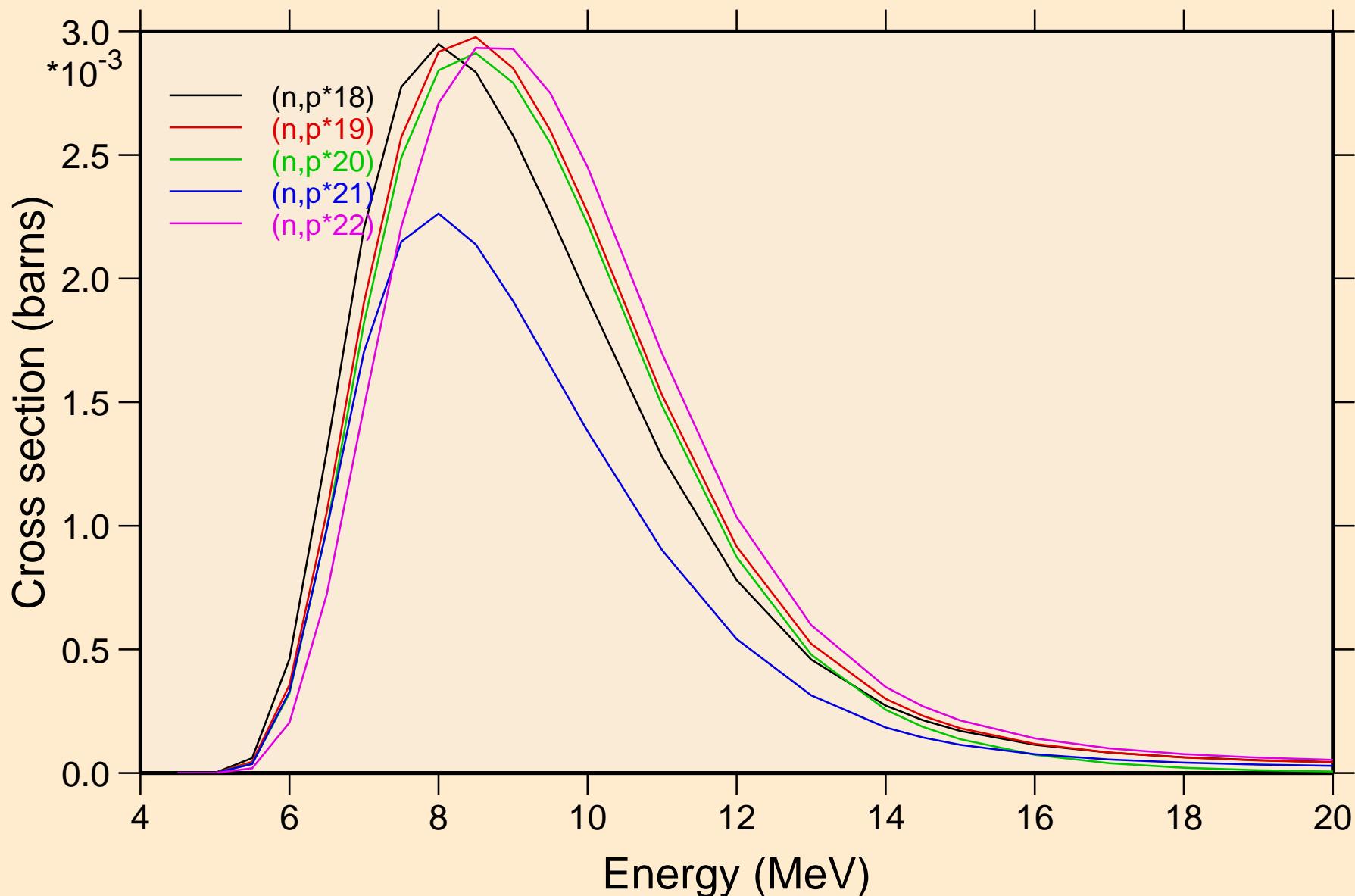
# JENDL-4 CA-42

## Threshold reactions



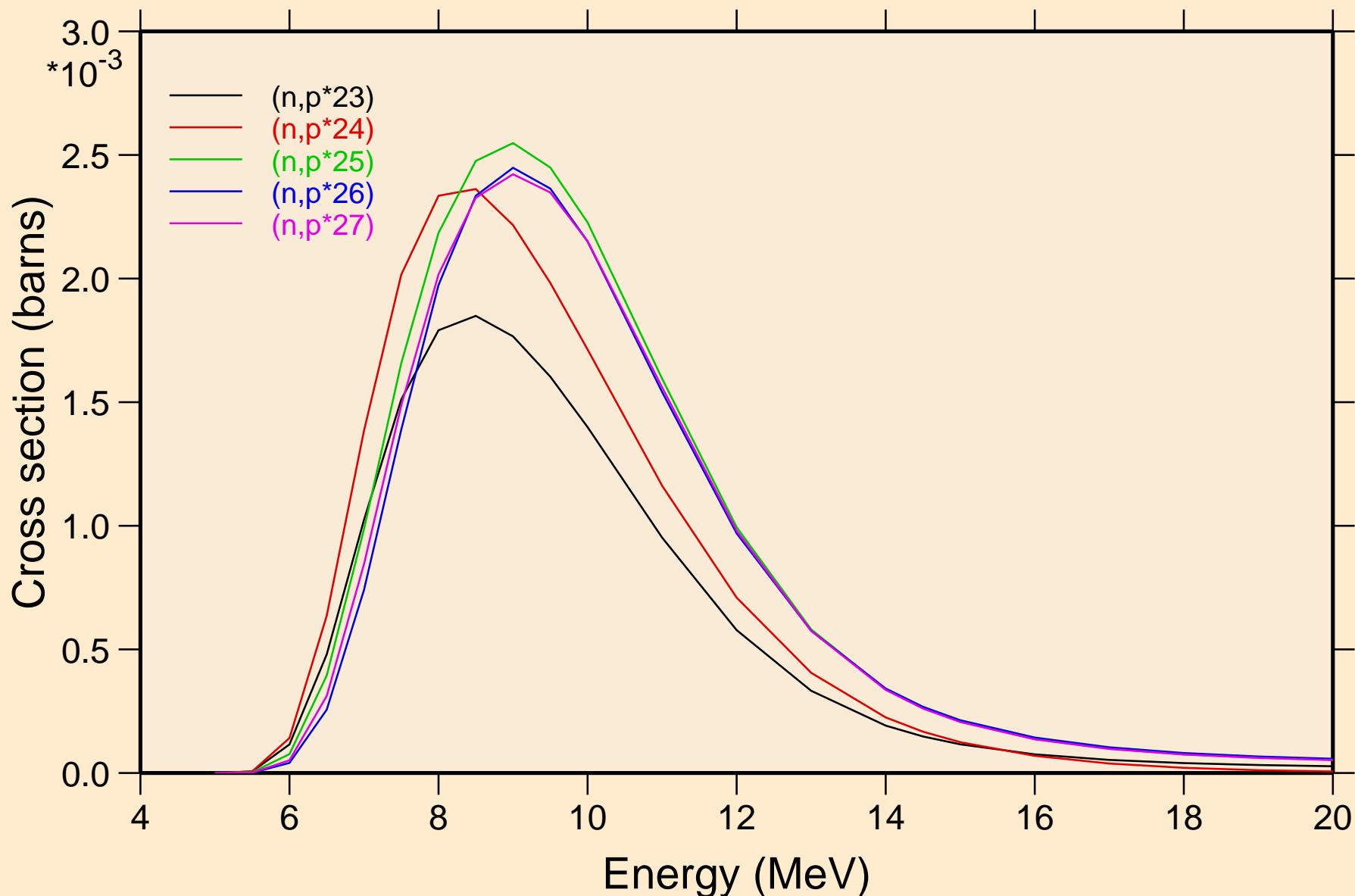
# JENDL-4 CA-42

## Threshold reactions



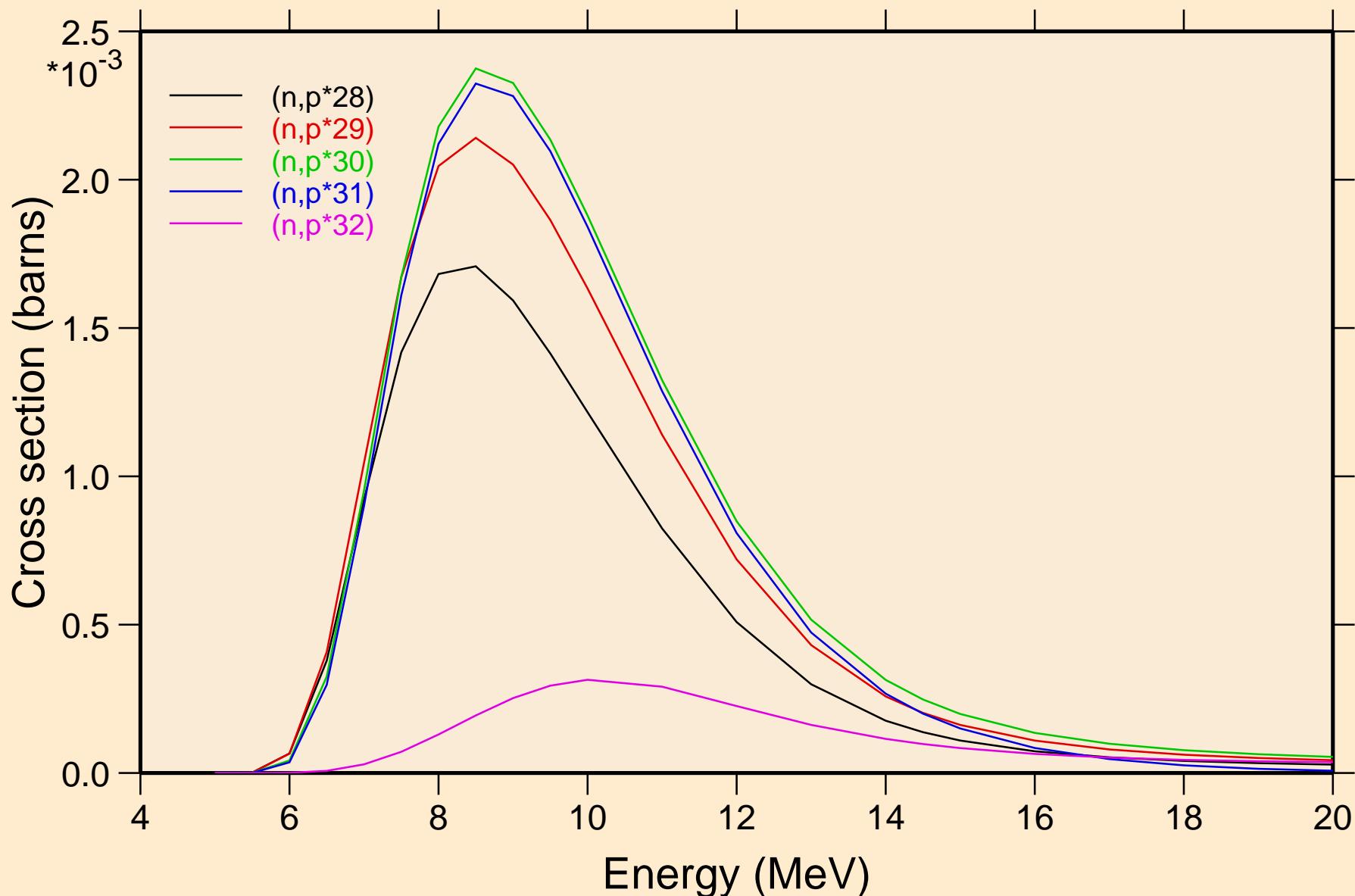
# JENDL-4 CA-42

## Threshold reactions



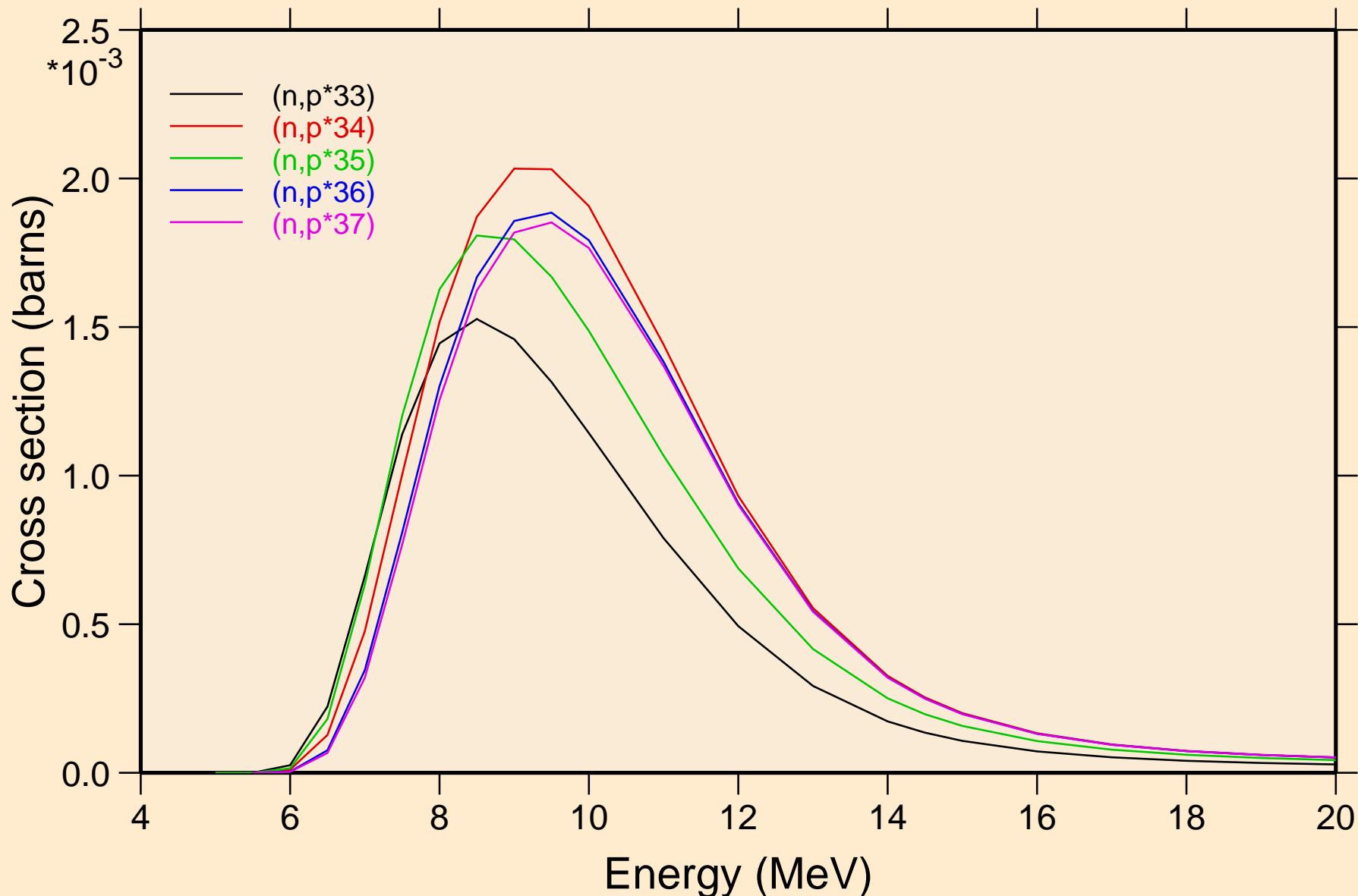
# JENDL-4 CA-42

## Threshold reactions



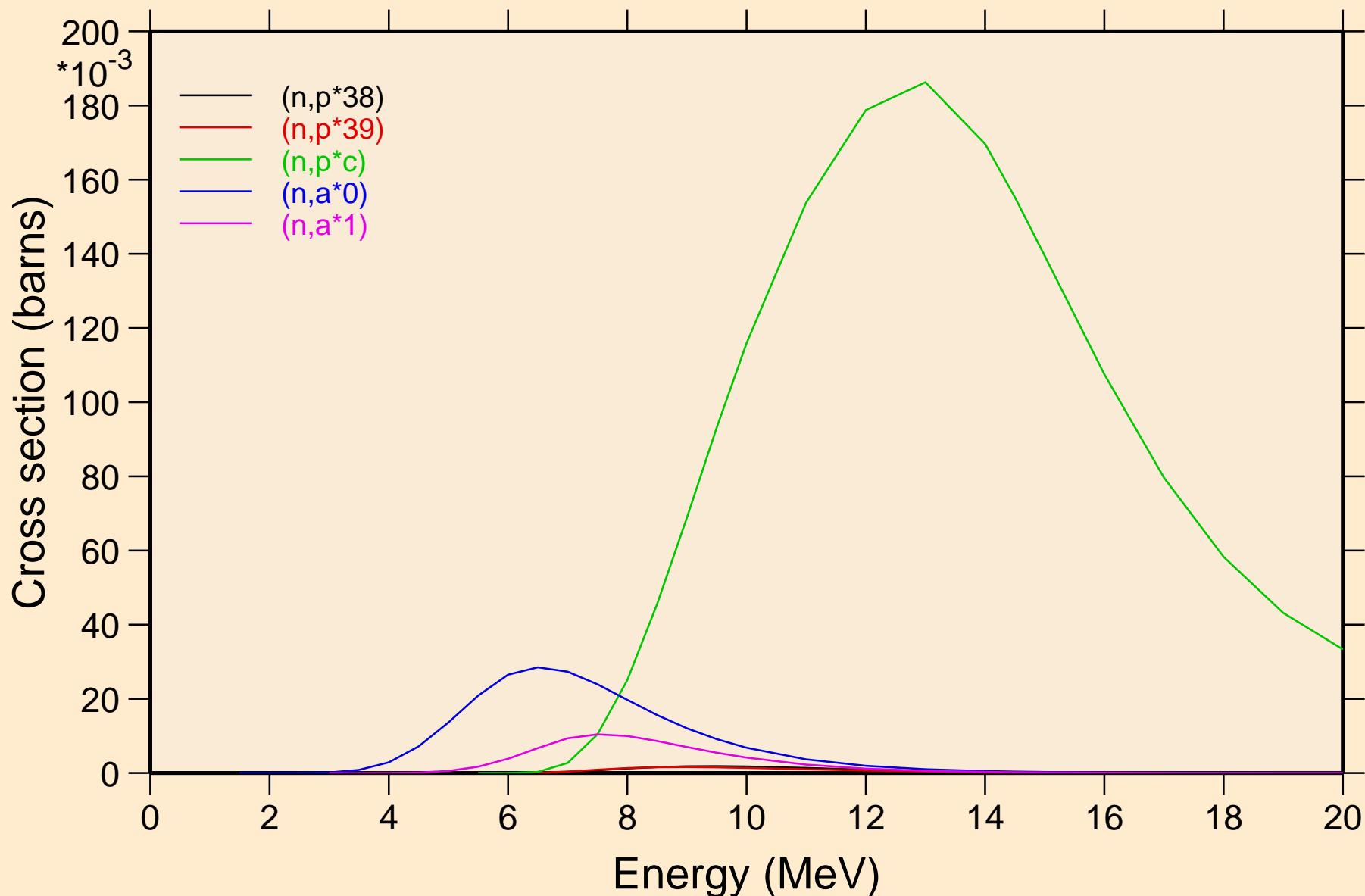
# JENDL-4 CA-42

## Threshold reactions



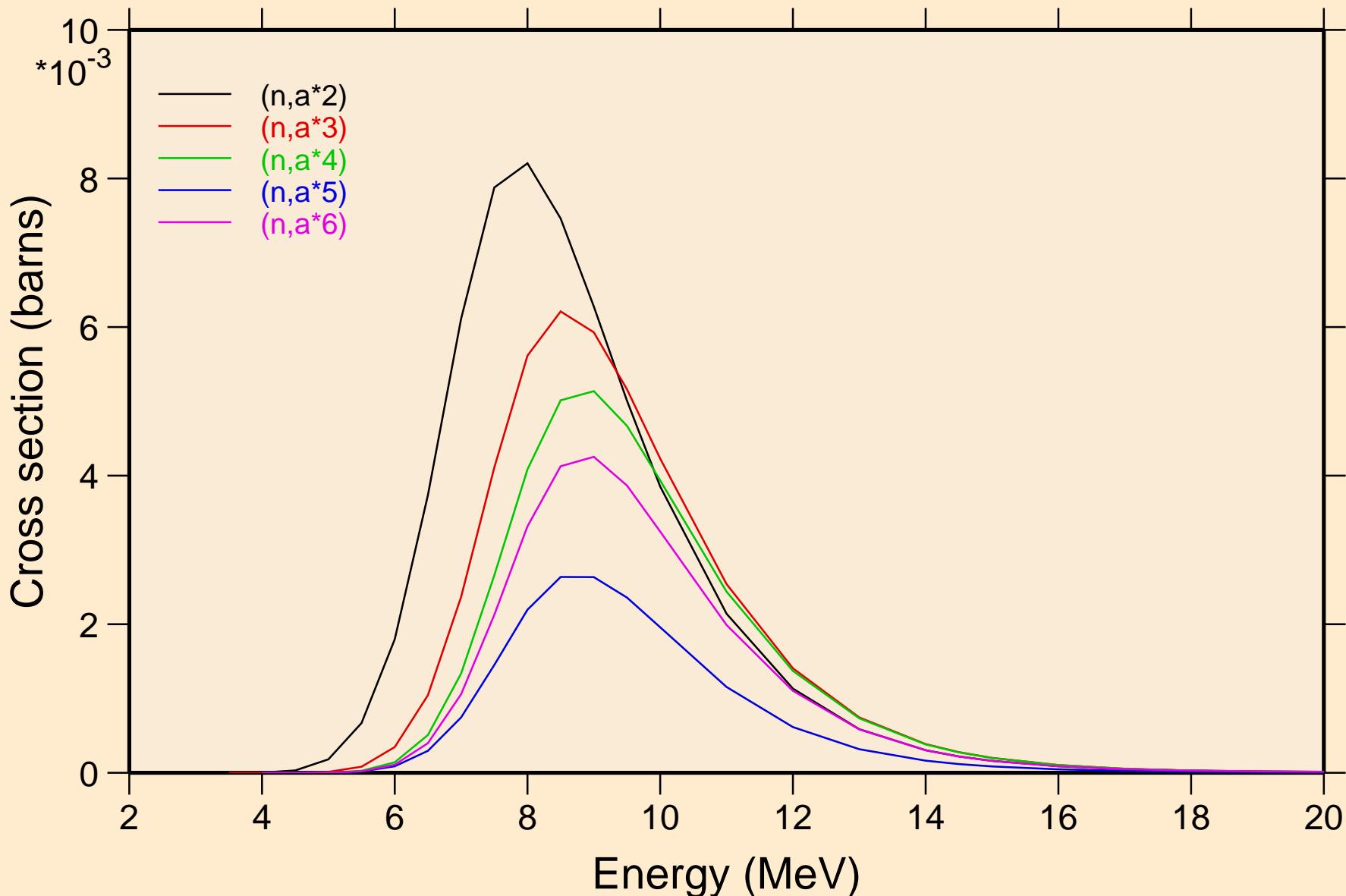
# JENDL-4 CA-42

## Threshold reactions



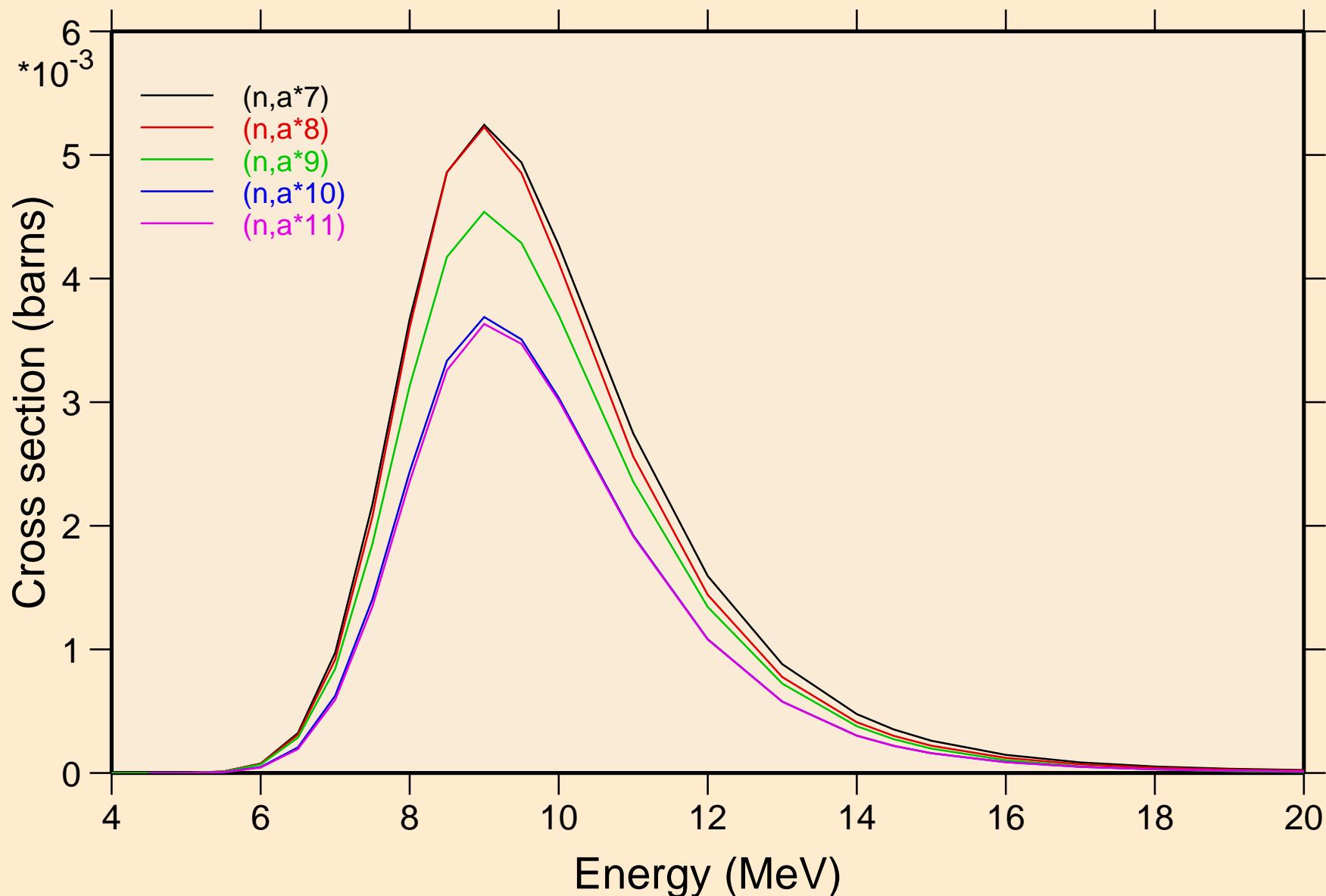
# JENDL-4 CA-42

## Threshold reactions



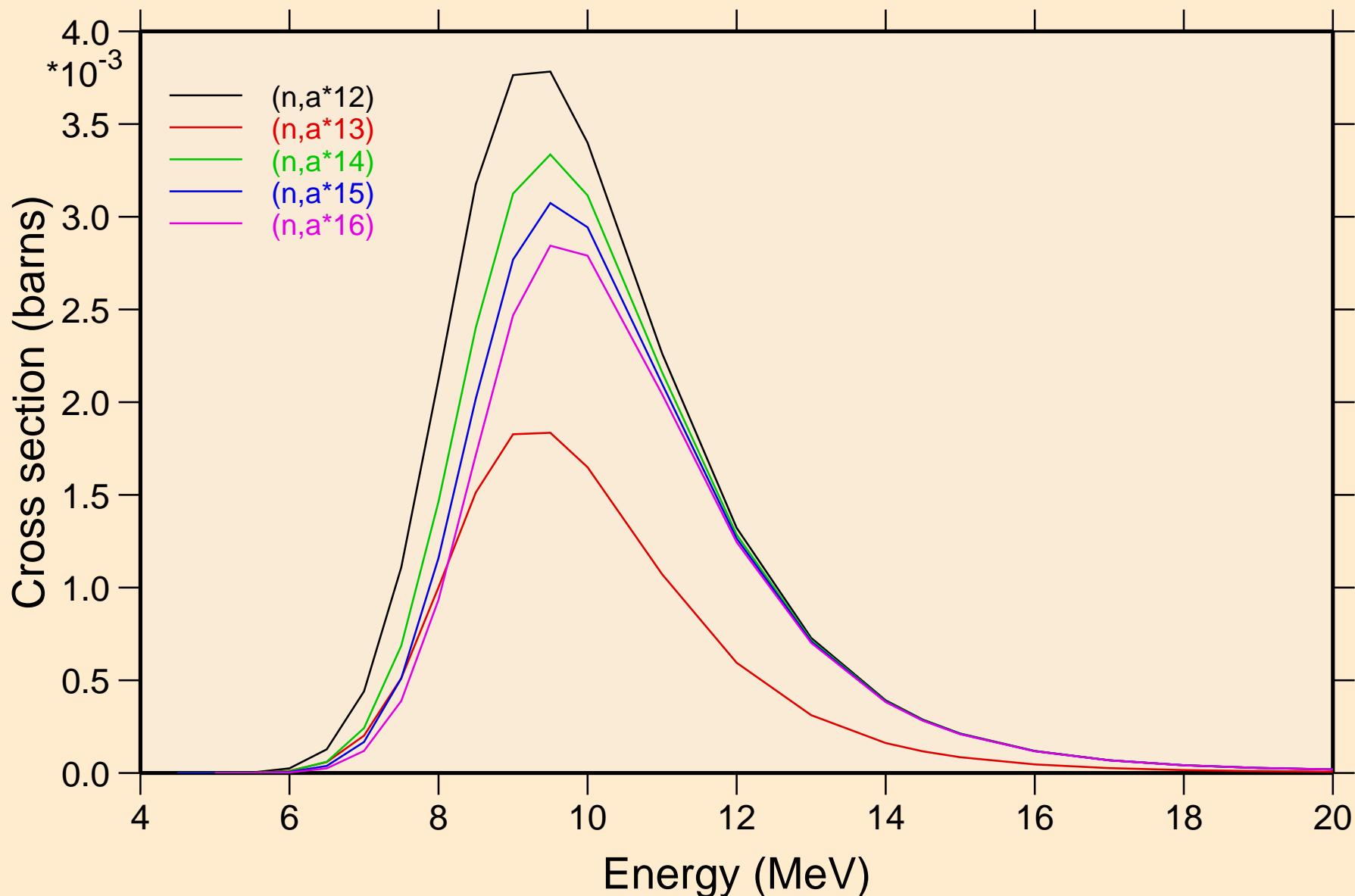
# JENDL-4 CA-42

## Threshold reactions



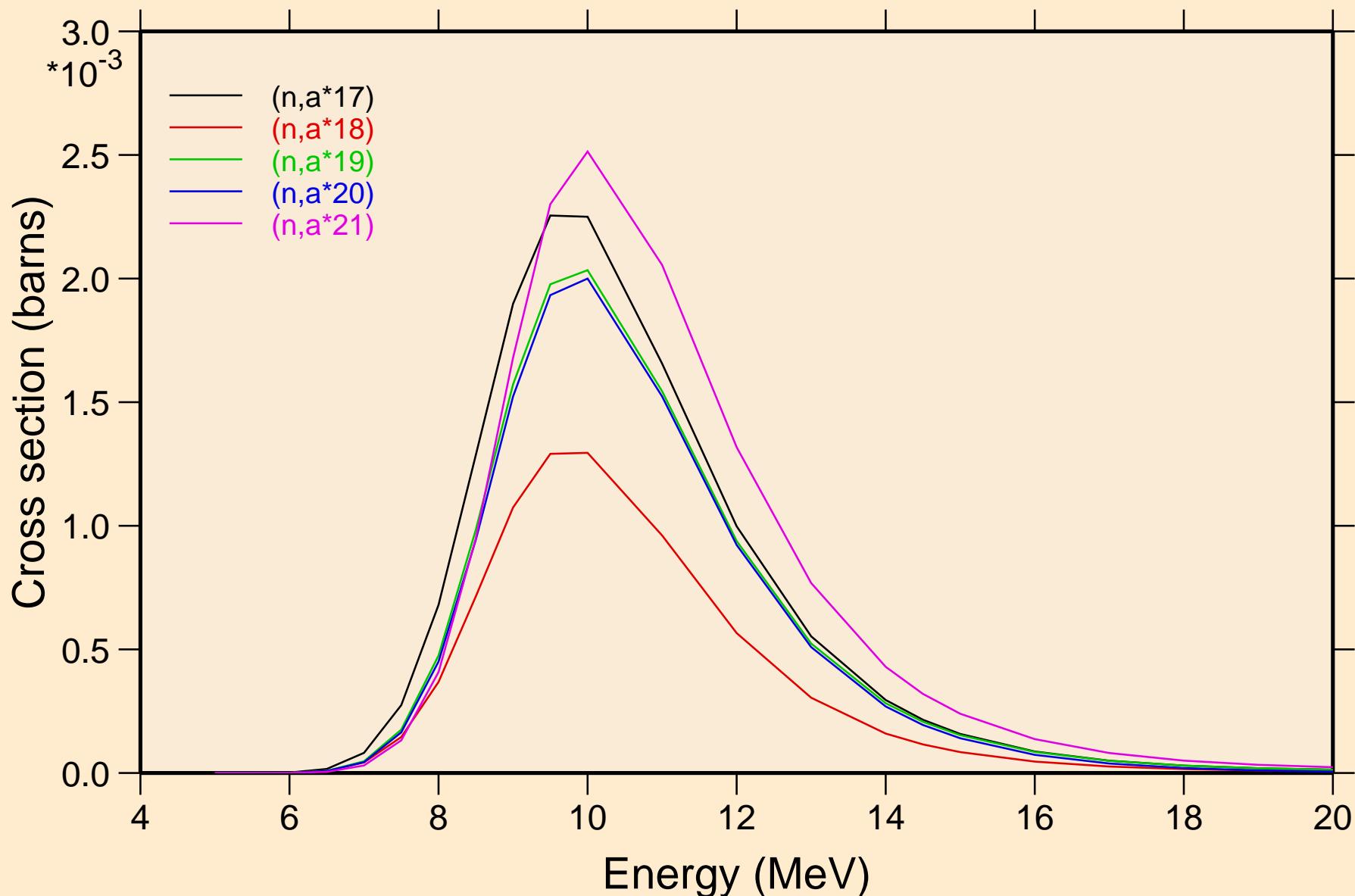
# JENDL-4 CA-42

## Threshold reactions



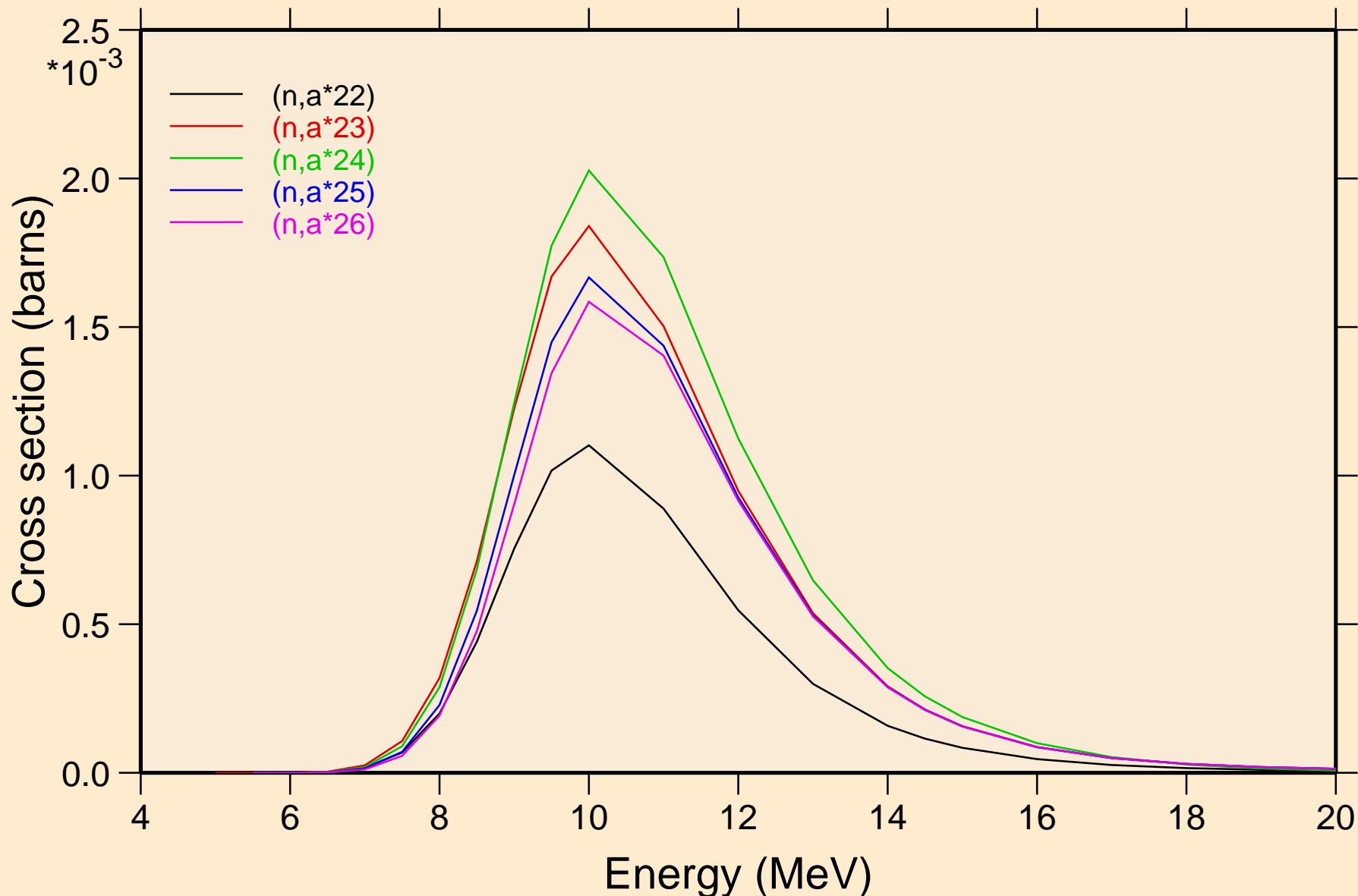
# JENDL-4 CA-42

## Threshold reactions



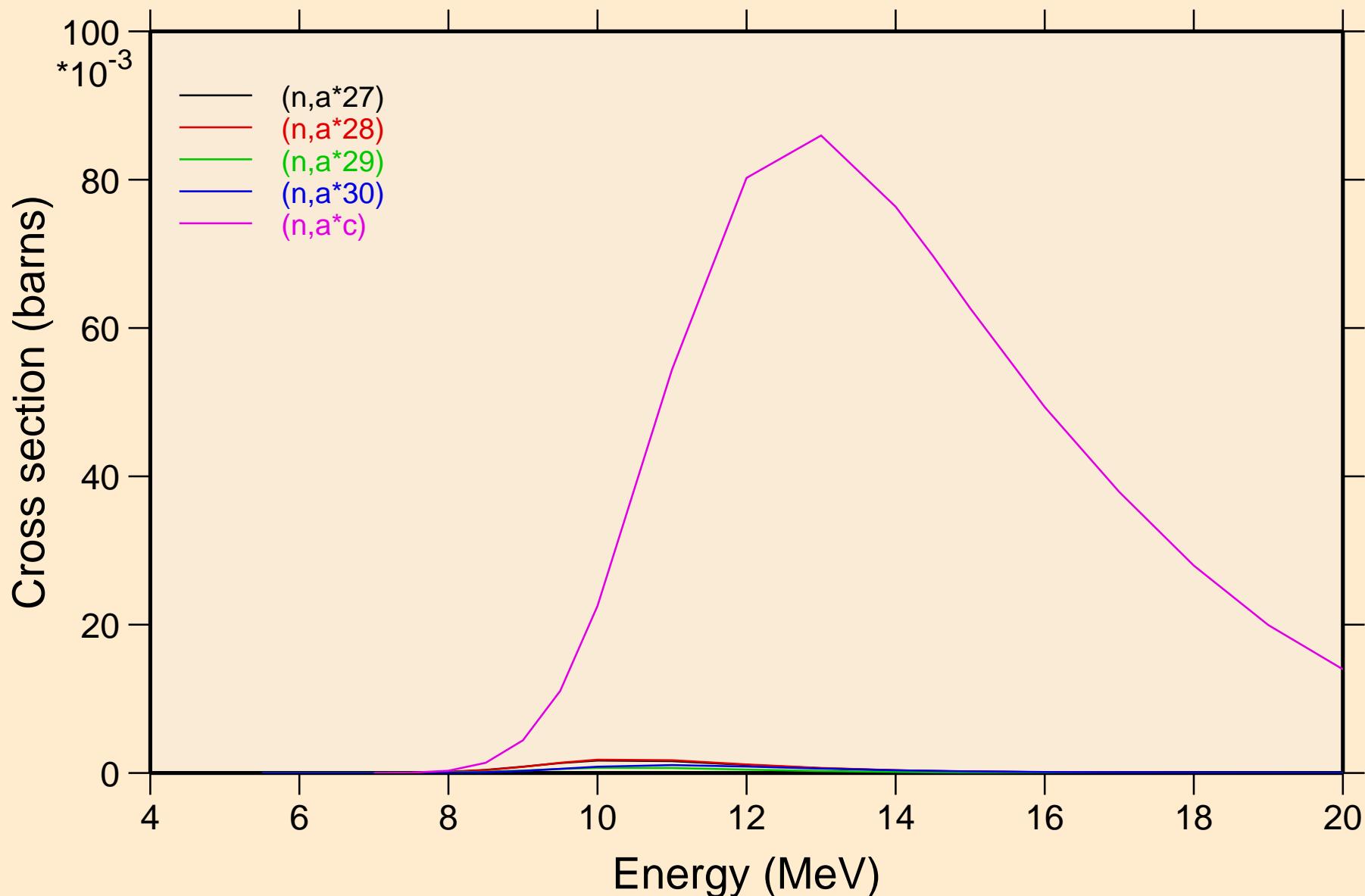
# JENDL-4 CA-42

## Threshold reactions

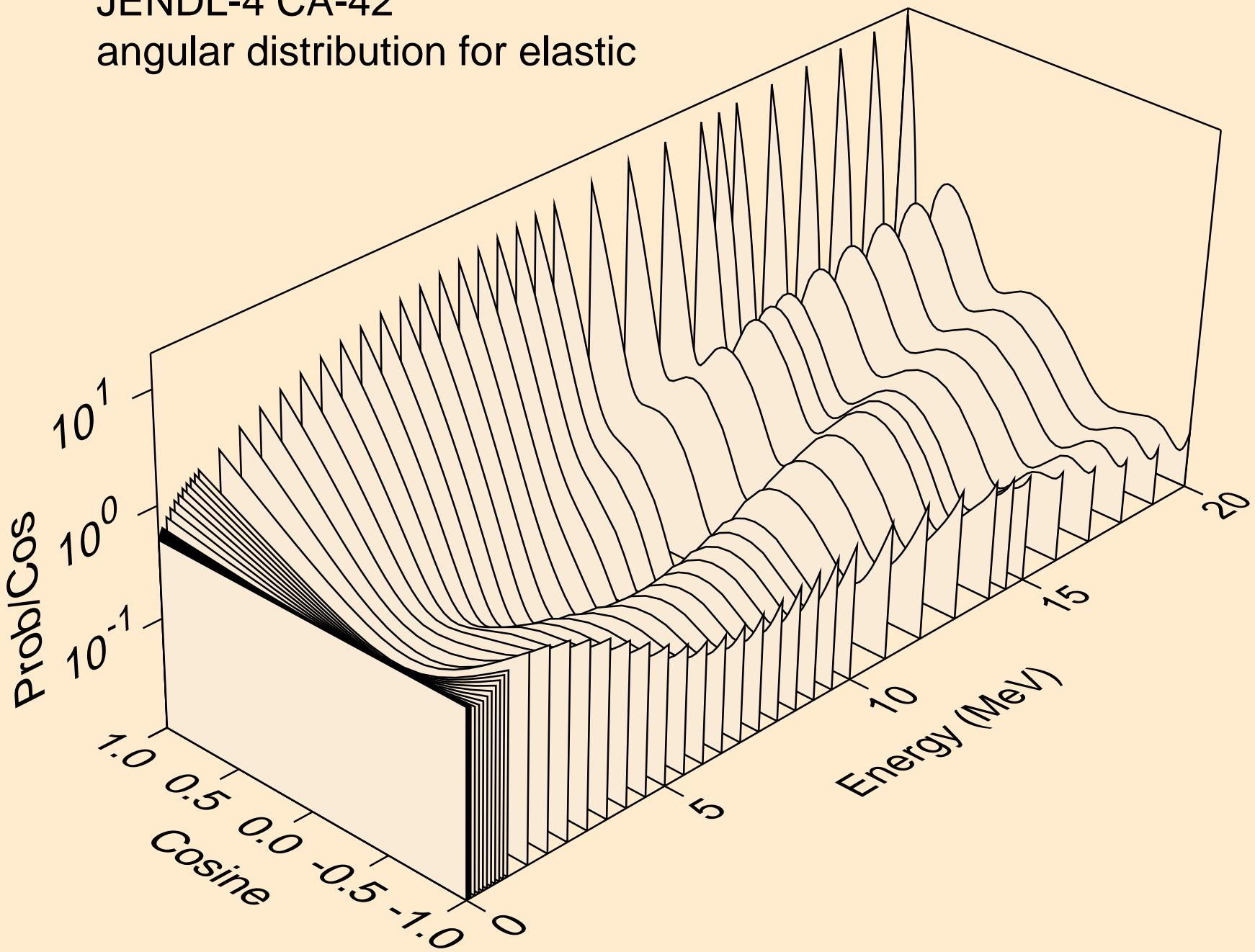


# JENDL-4 CA-42

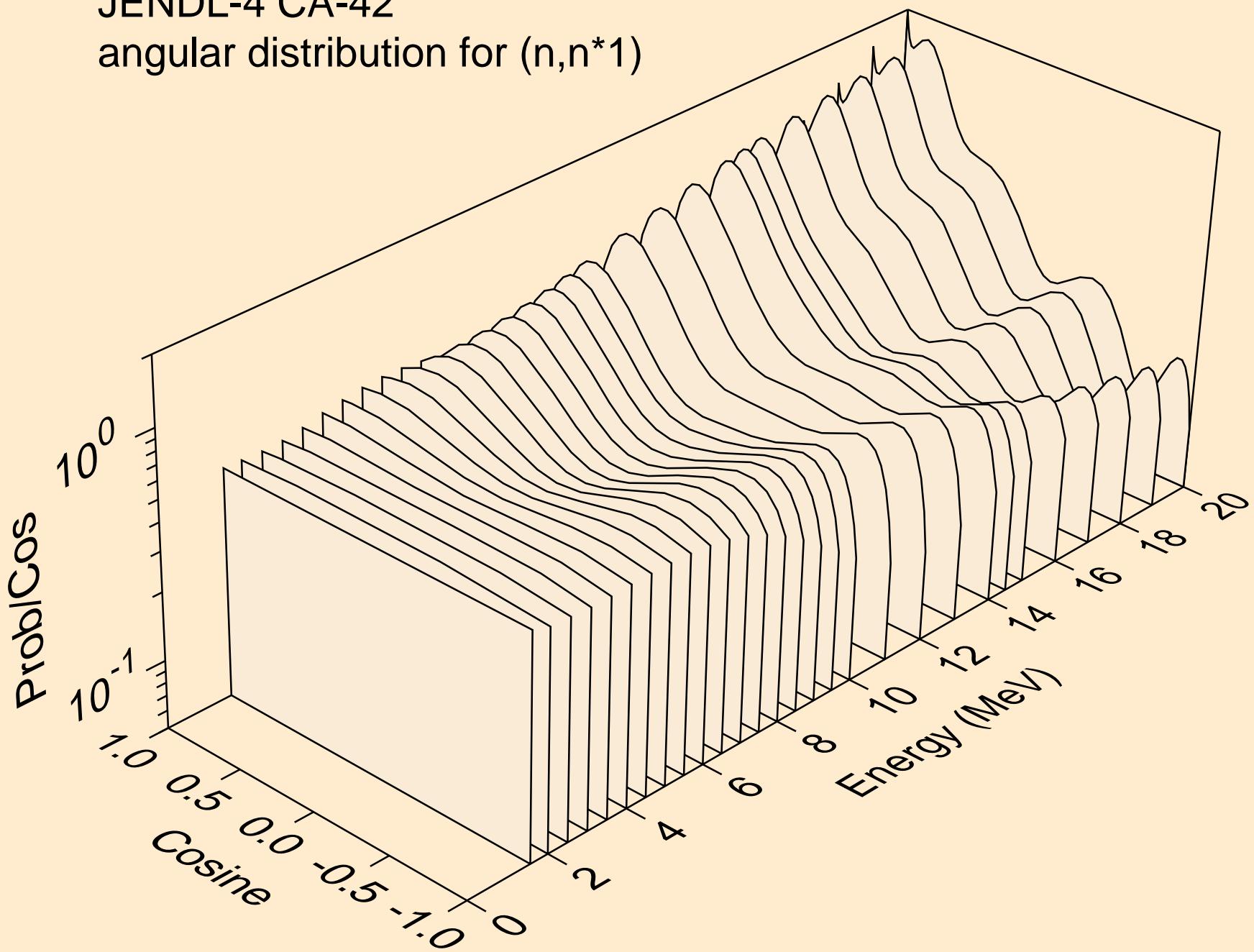
## Threshold reactions



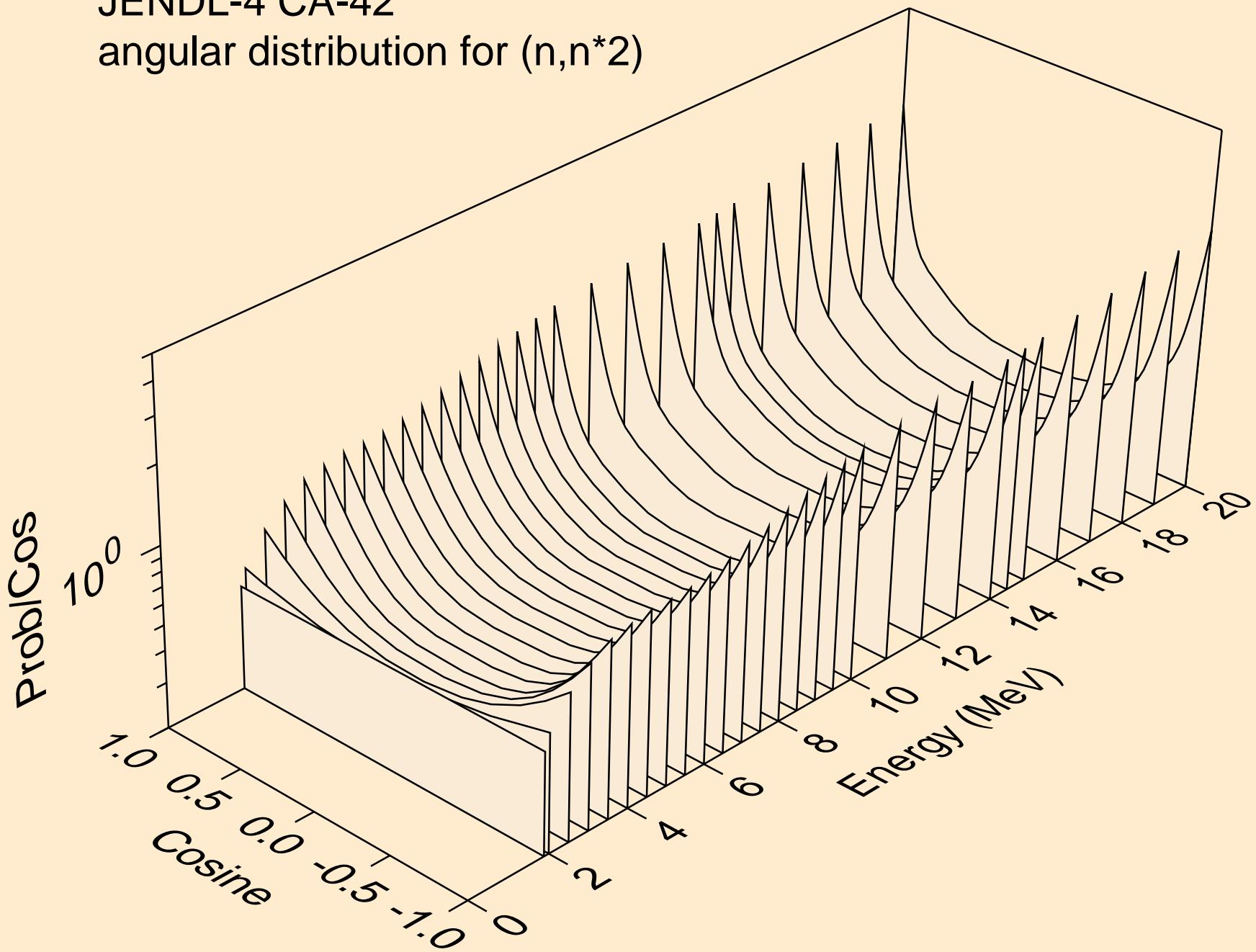
JENDL-4 CA-42  
angular distribution for elastic



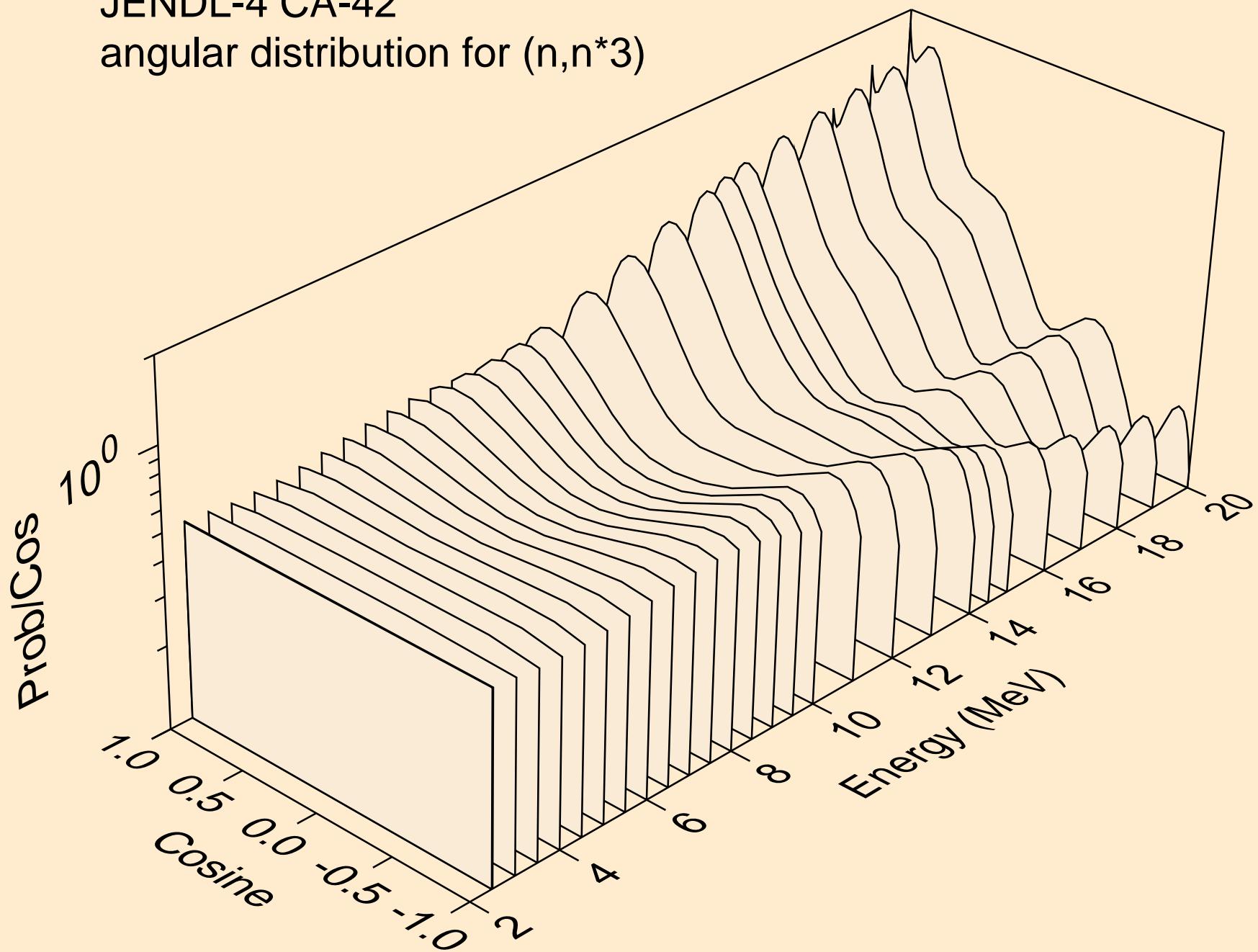
JENDL-4 CA-42  
angular distribution for (n,n\*1)



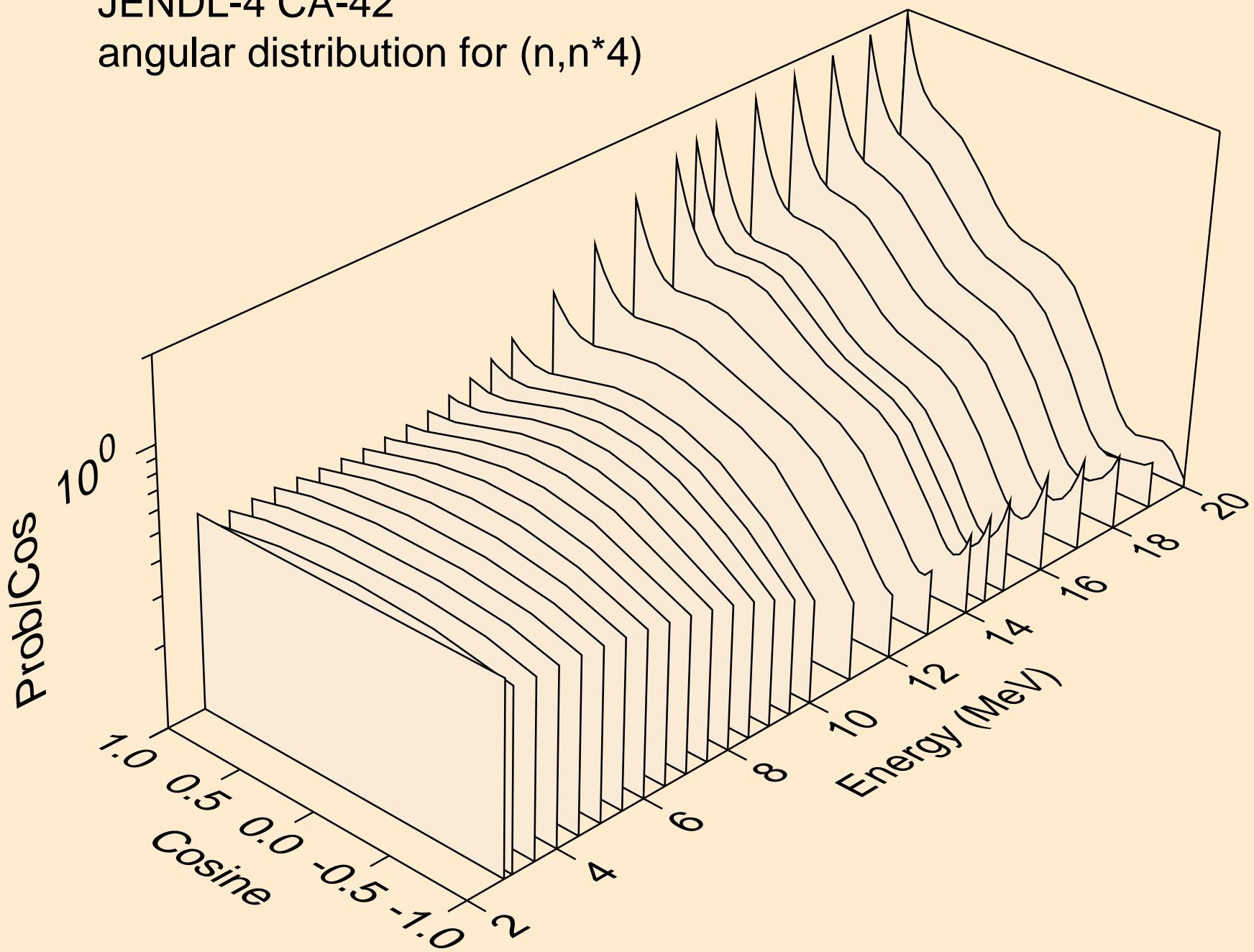
JENDL-4 CA-42  
angular distribution for  $(n,n^*)$



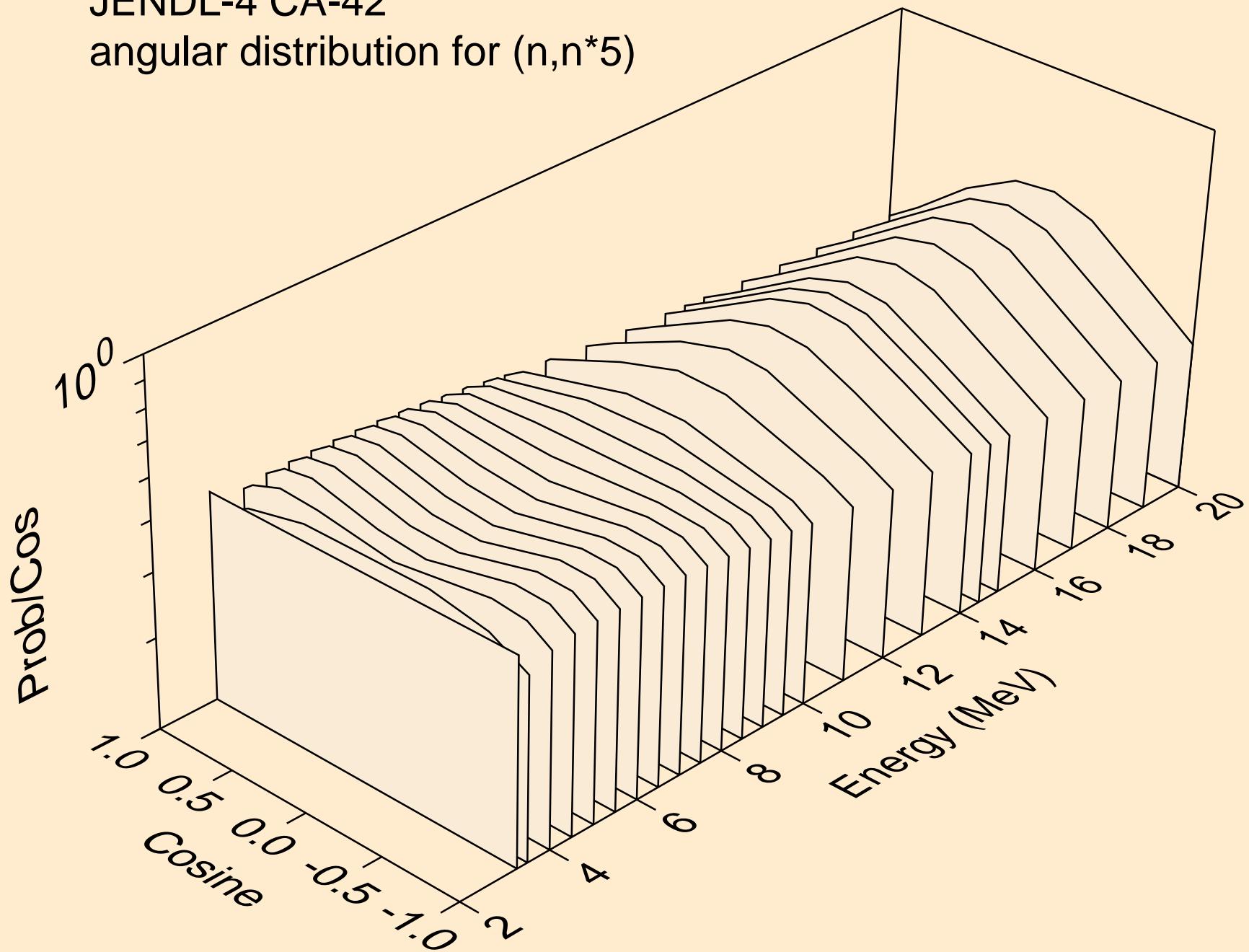
JENDL-4 CA-42  
angular distribution for  $(n,n^*3)$



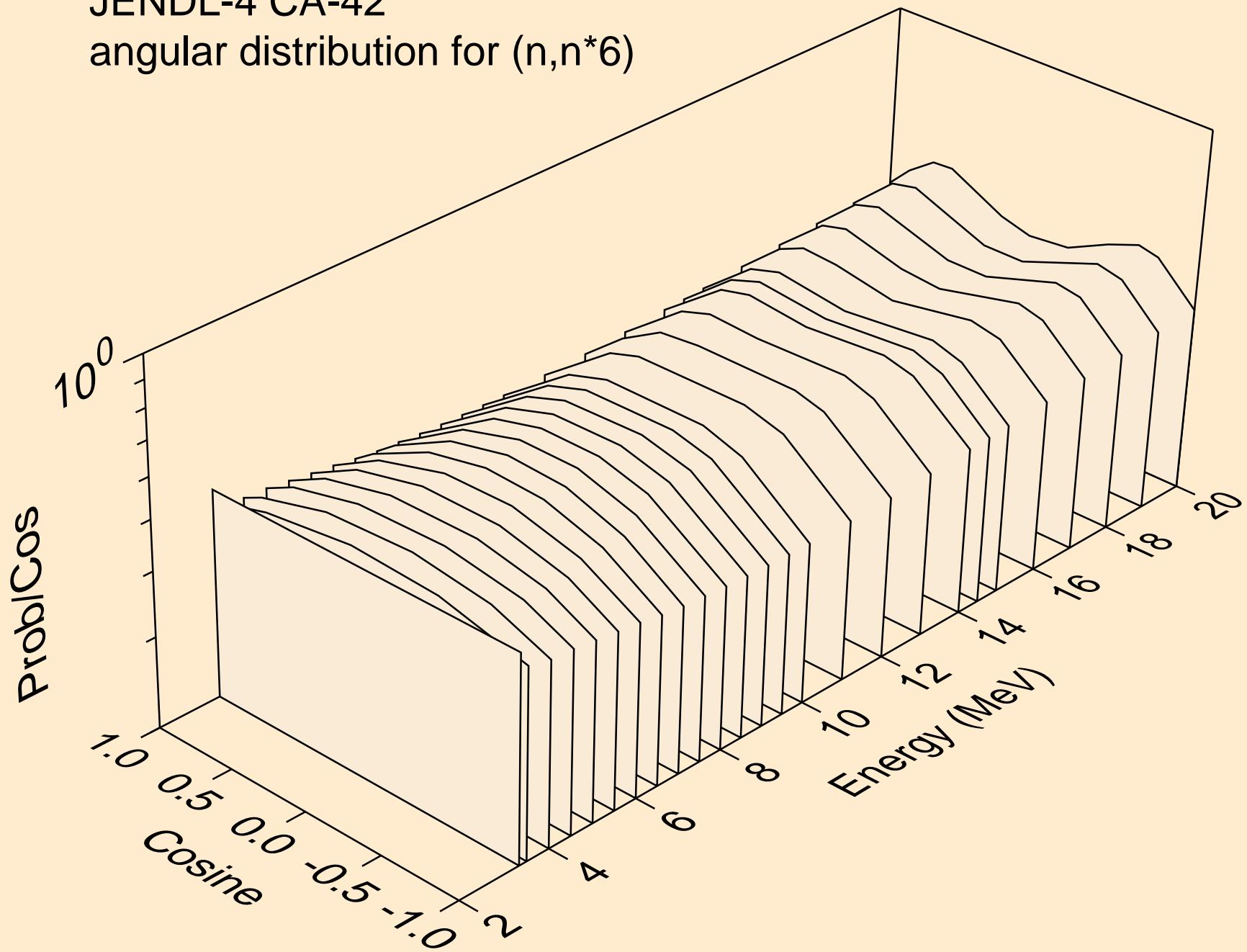
JENDL-4 CA-42  
angular distribution for  $(n,n^*4)$



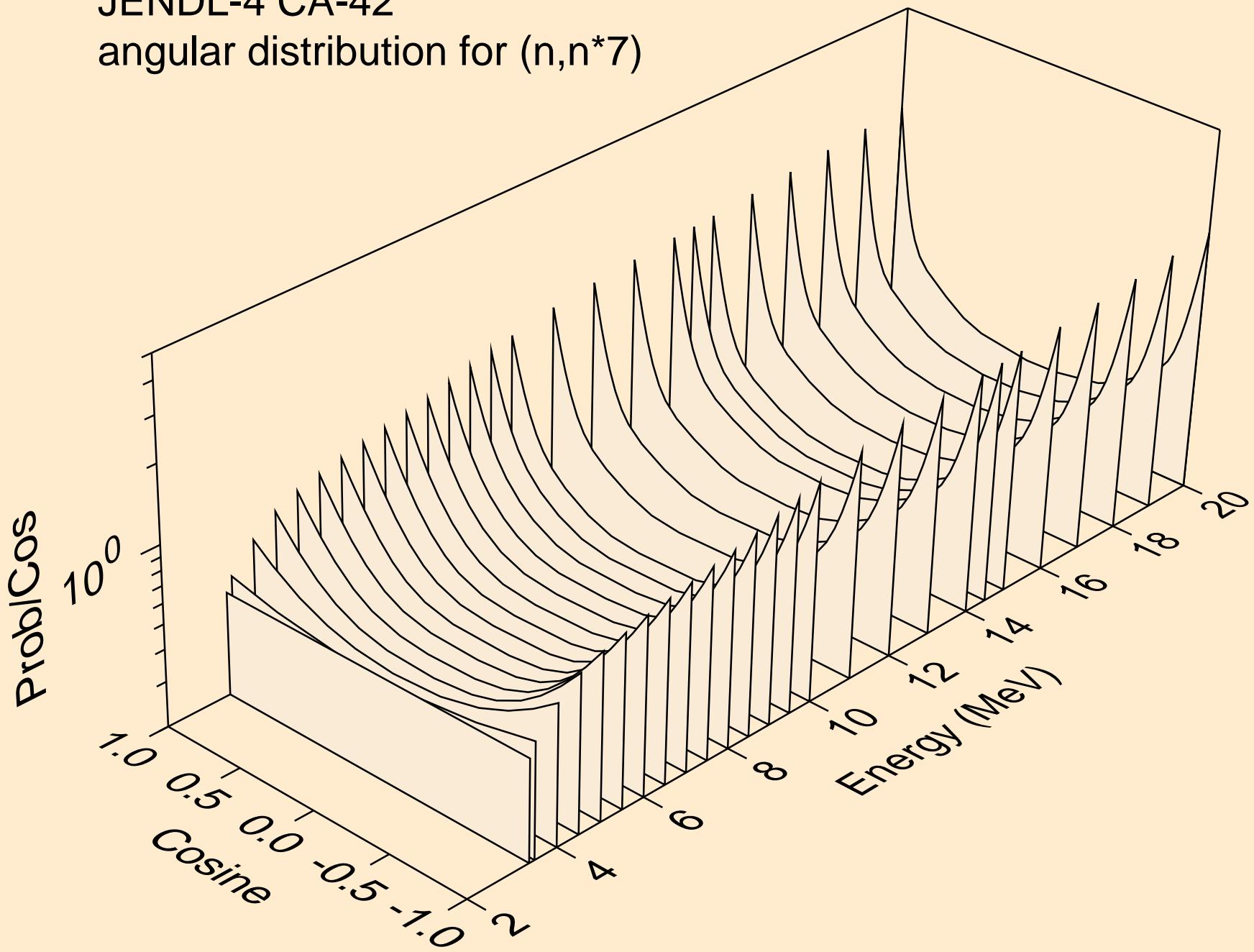
JENDL-4 CA-42  
angular distribution for  $(n,n^*)5$



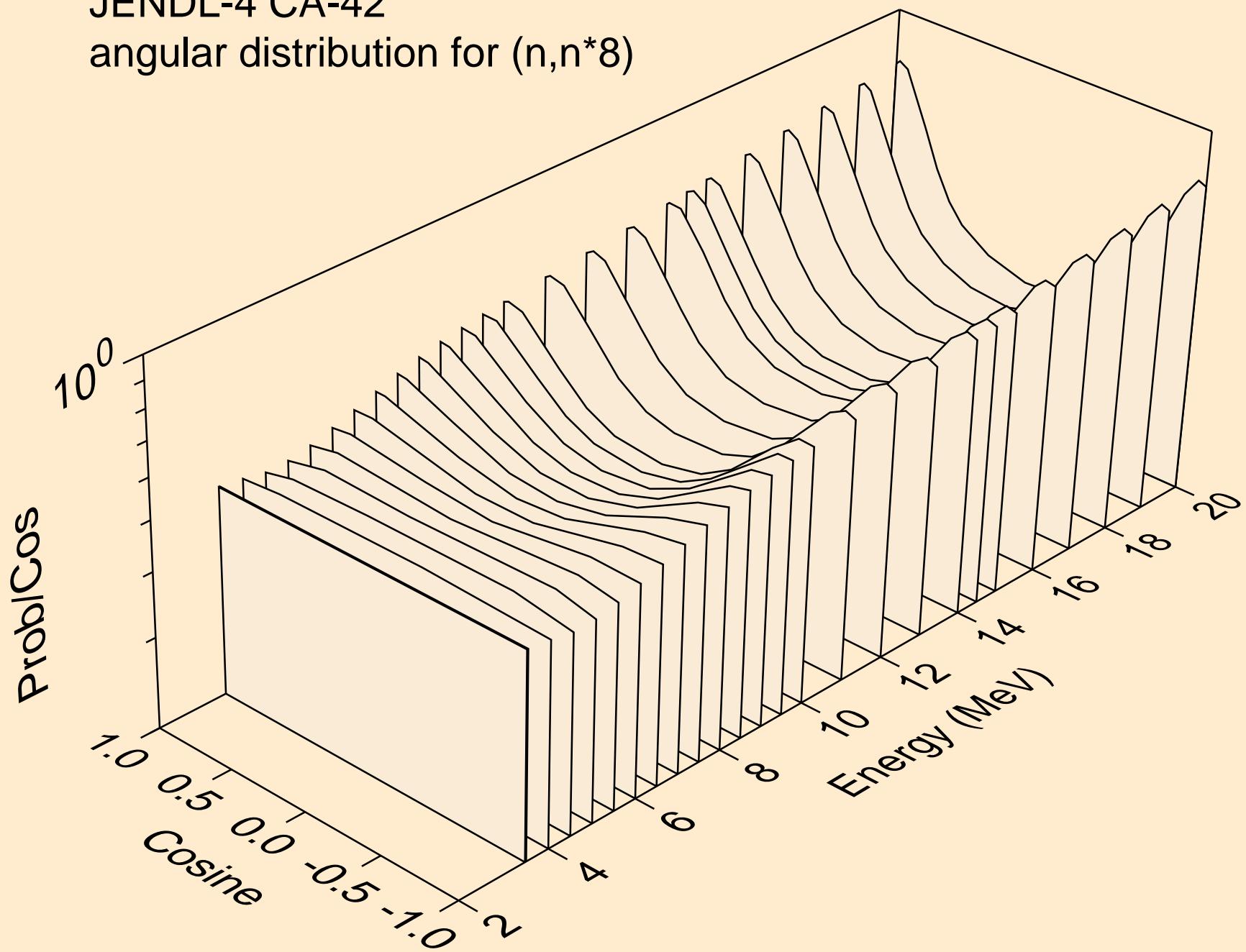
JENDL-4 CA-42  
angular distribution for  $(n,n^*6)$



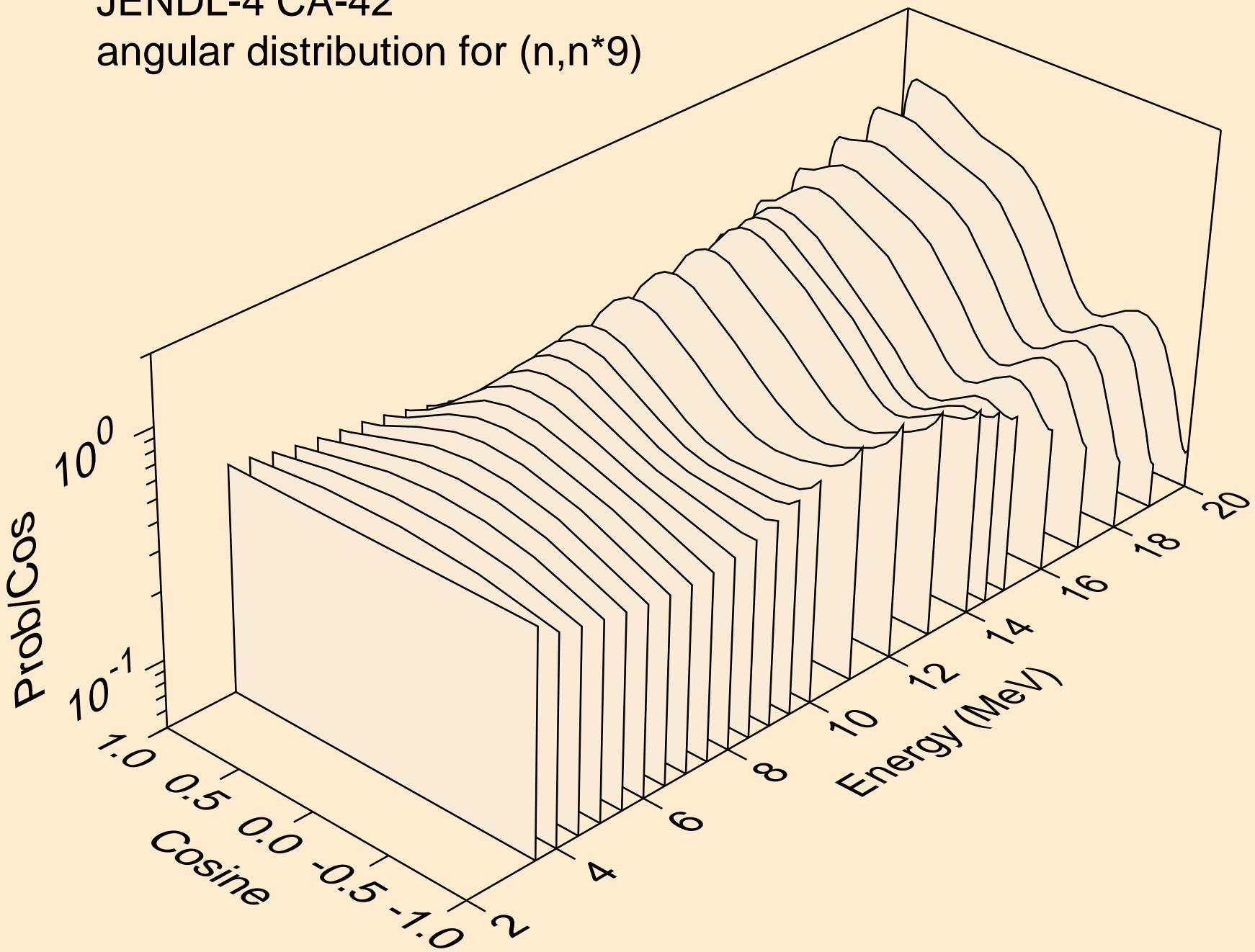
JENDL-4 CA-42  
angular distribution for  $(n,n^*7)$



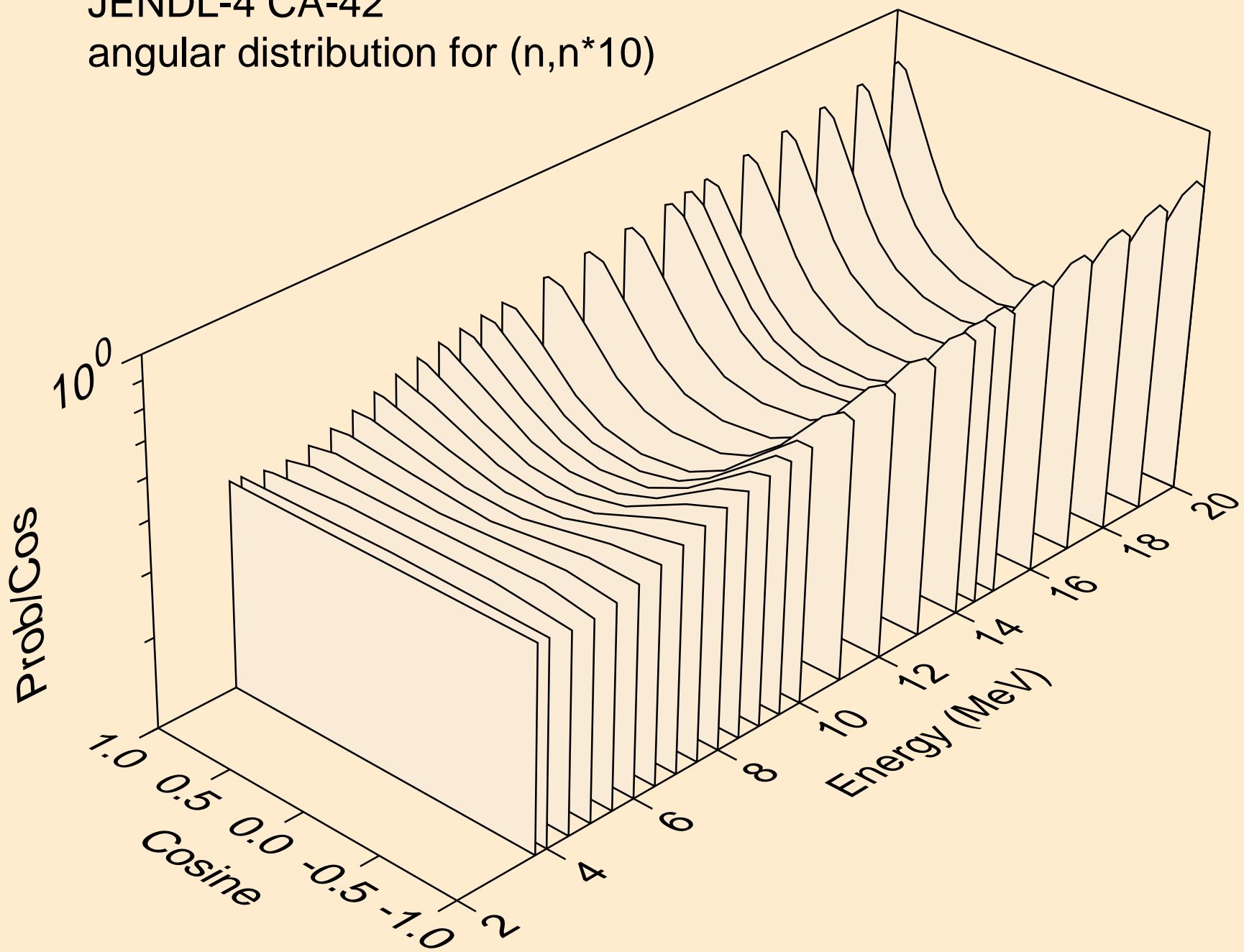
JENDL-4 CA-42  
angular distribution for  $(n,n^*8)$



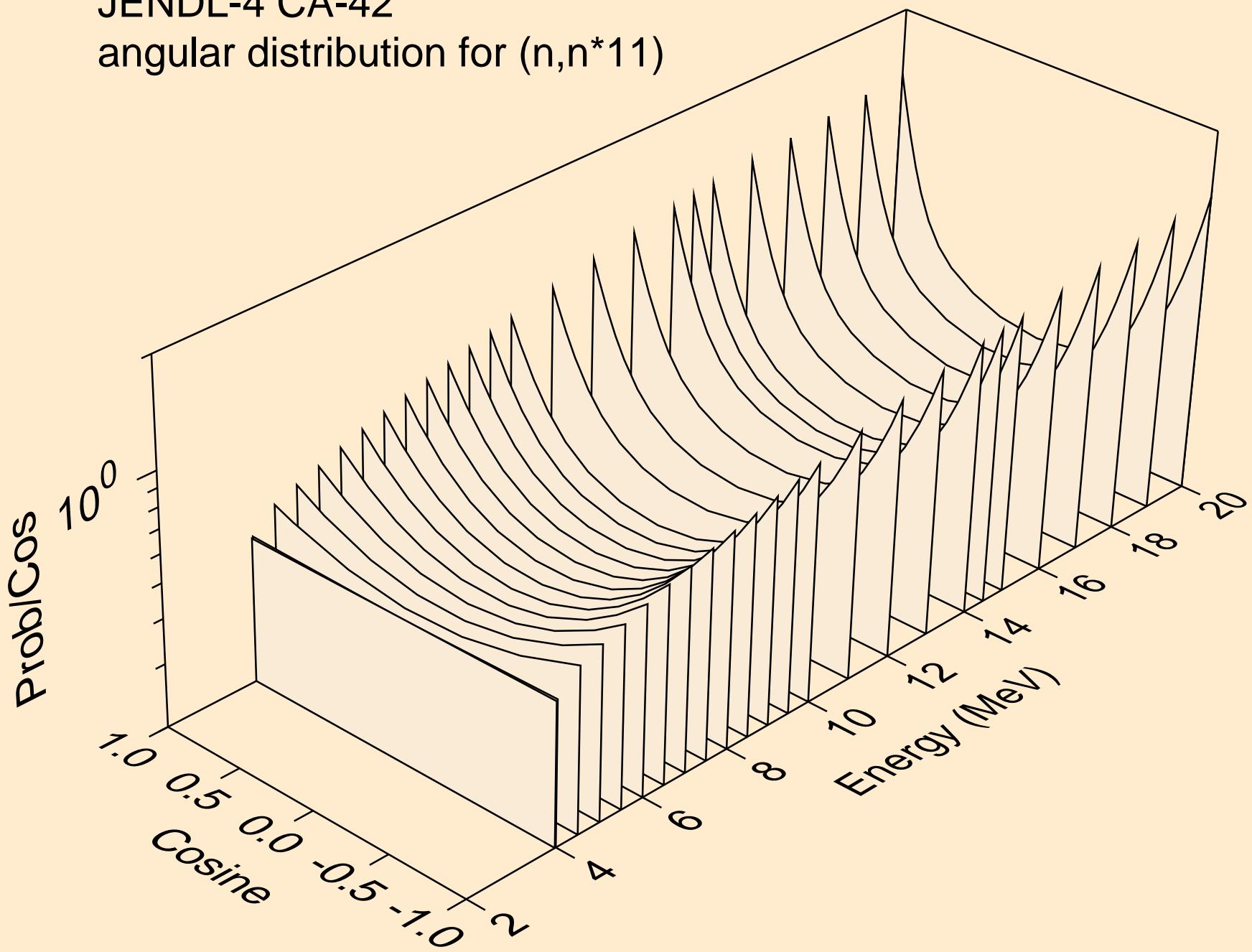
JENDL-4 CA-42  
angular distribution for  $(n,n^*9)$



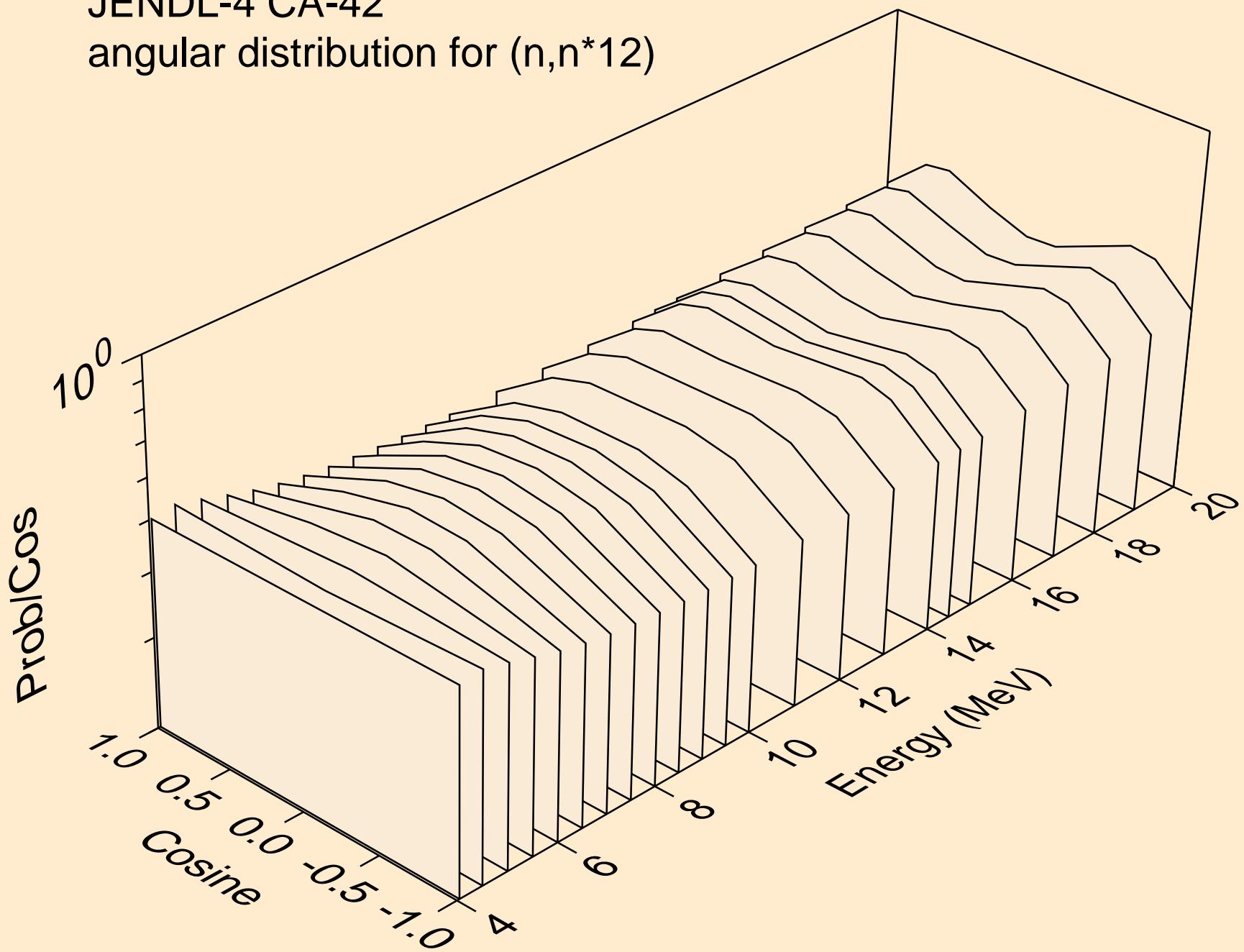
JENDL-4 CA-42  
angular distribution for (n,n\*10)



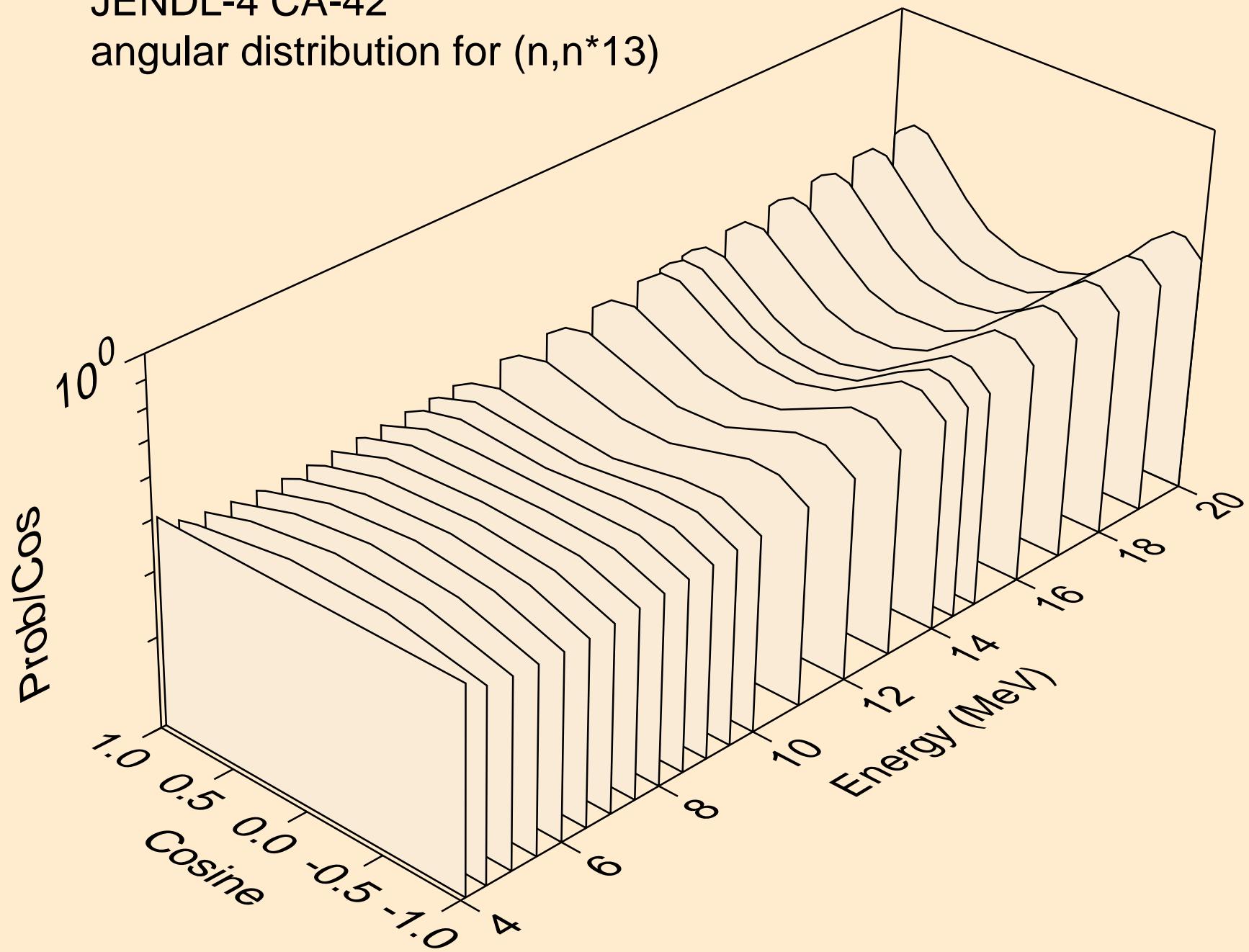
JENDL-4 CA-42  
angular distribution for  $(n,n^*11)$



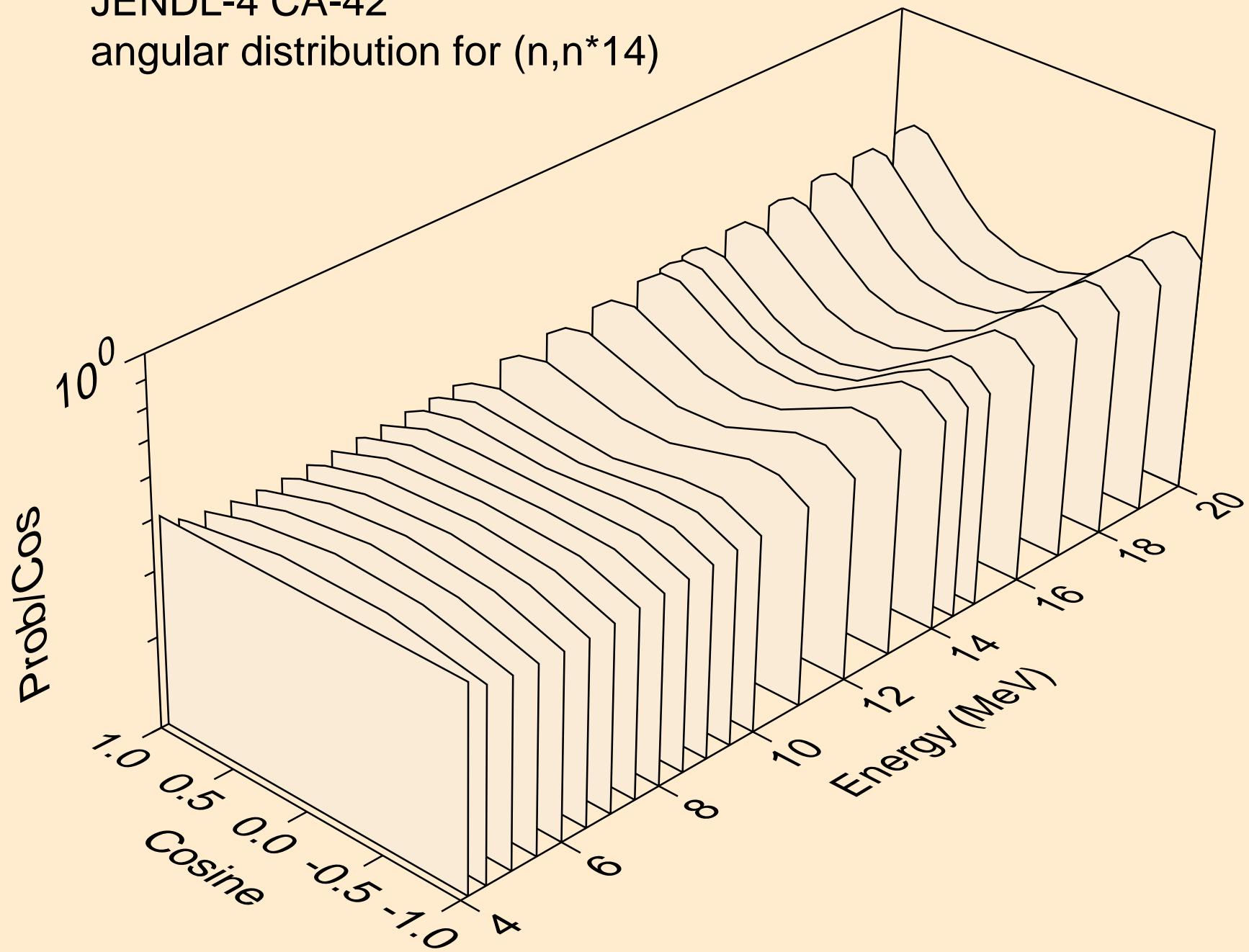
JENDL-4 CA-42  
angular distribution for (n,n\*12)



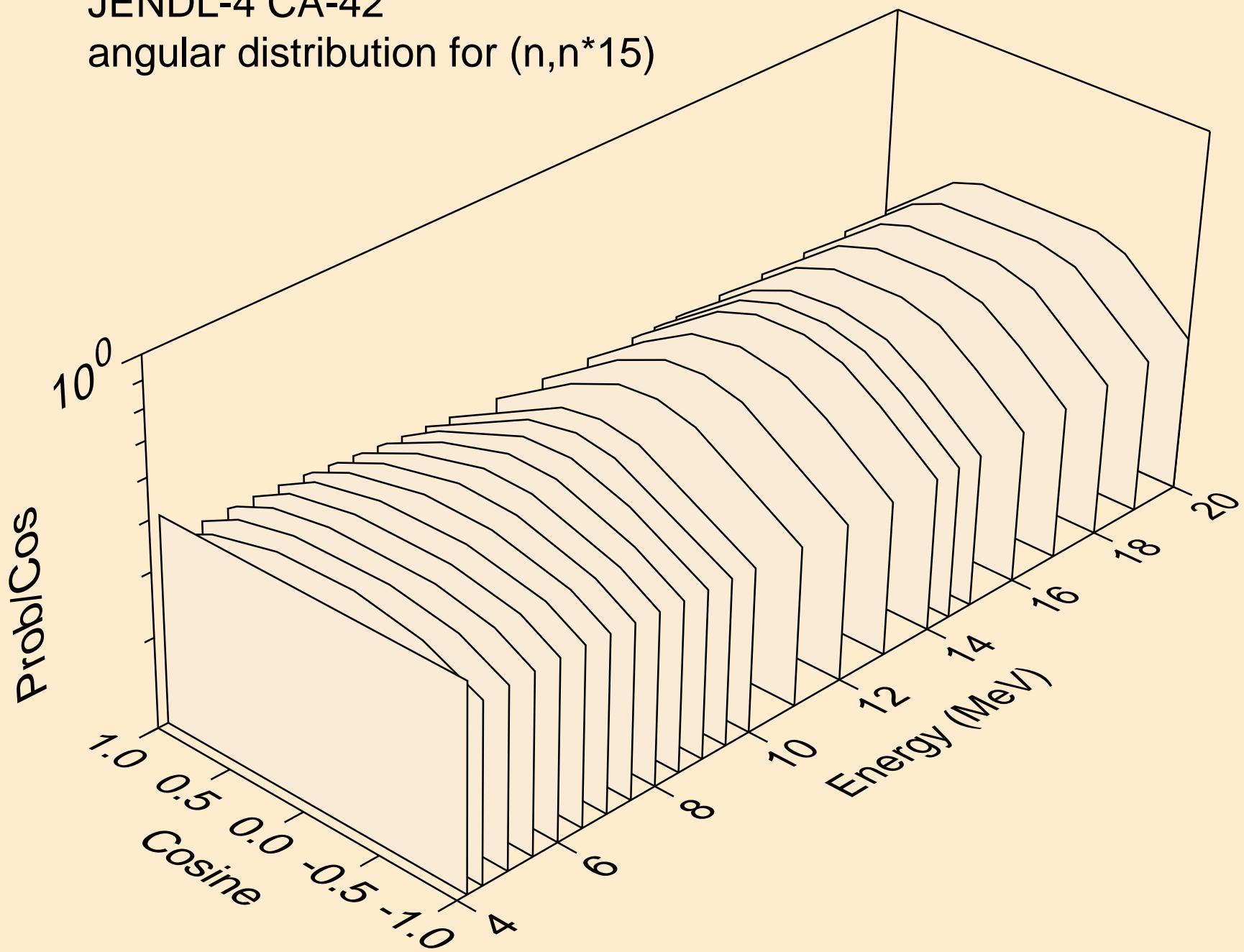
JENDL-4 CA-42  
angular distribution for  $(n,n^*13)$



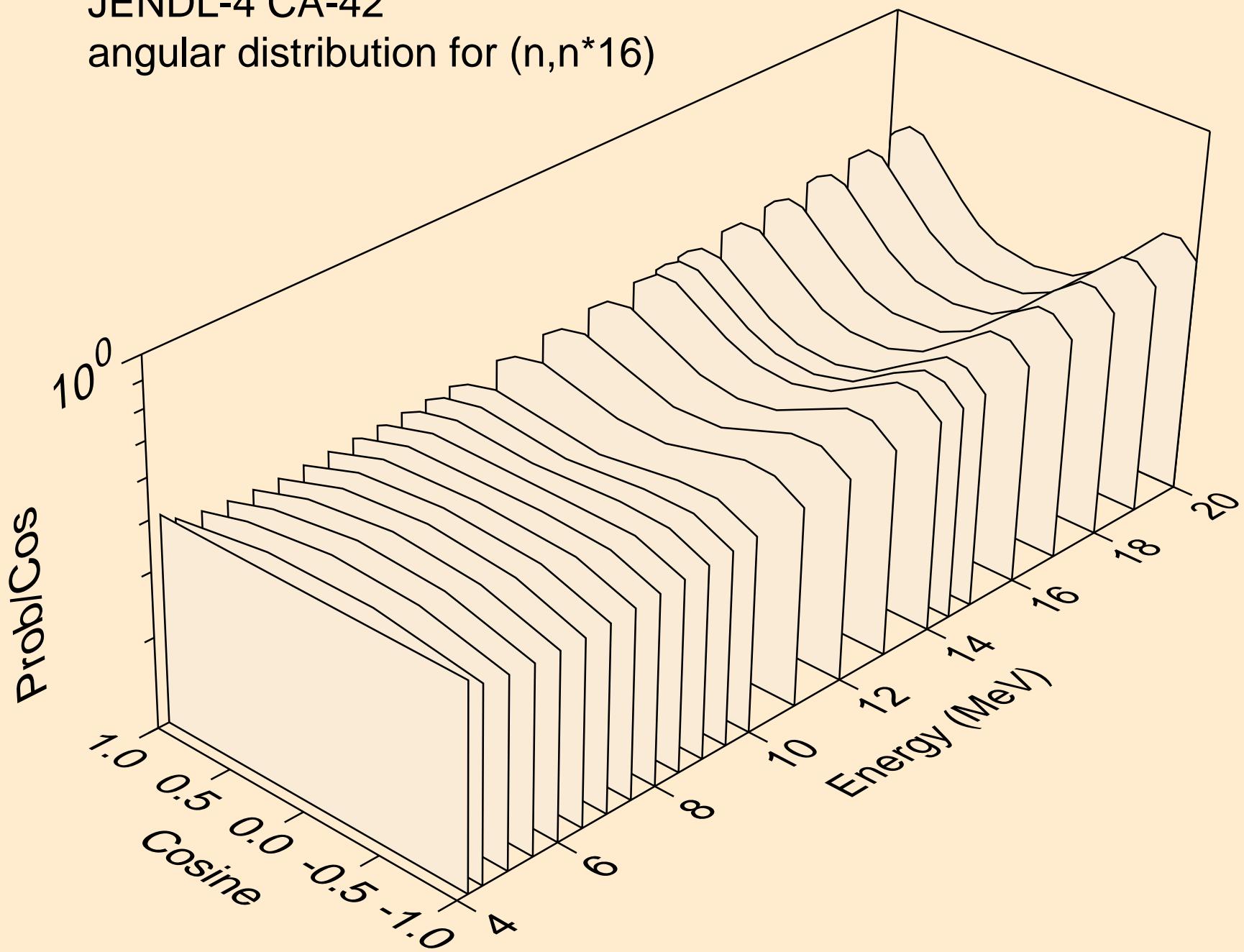
JENDL-4 CA-42  
angular distribution for  $(n,n^*14)$



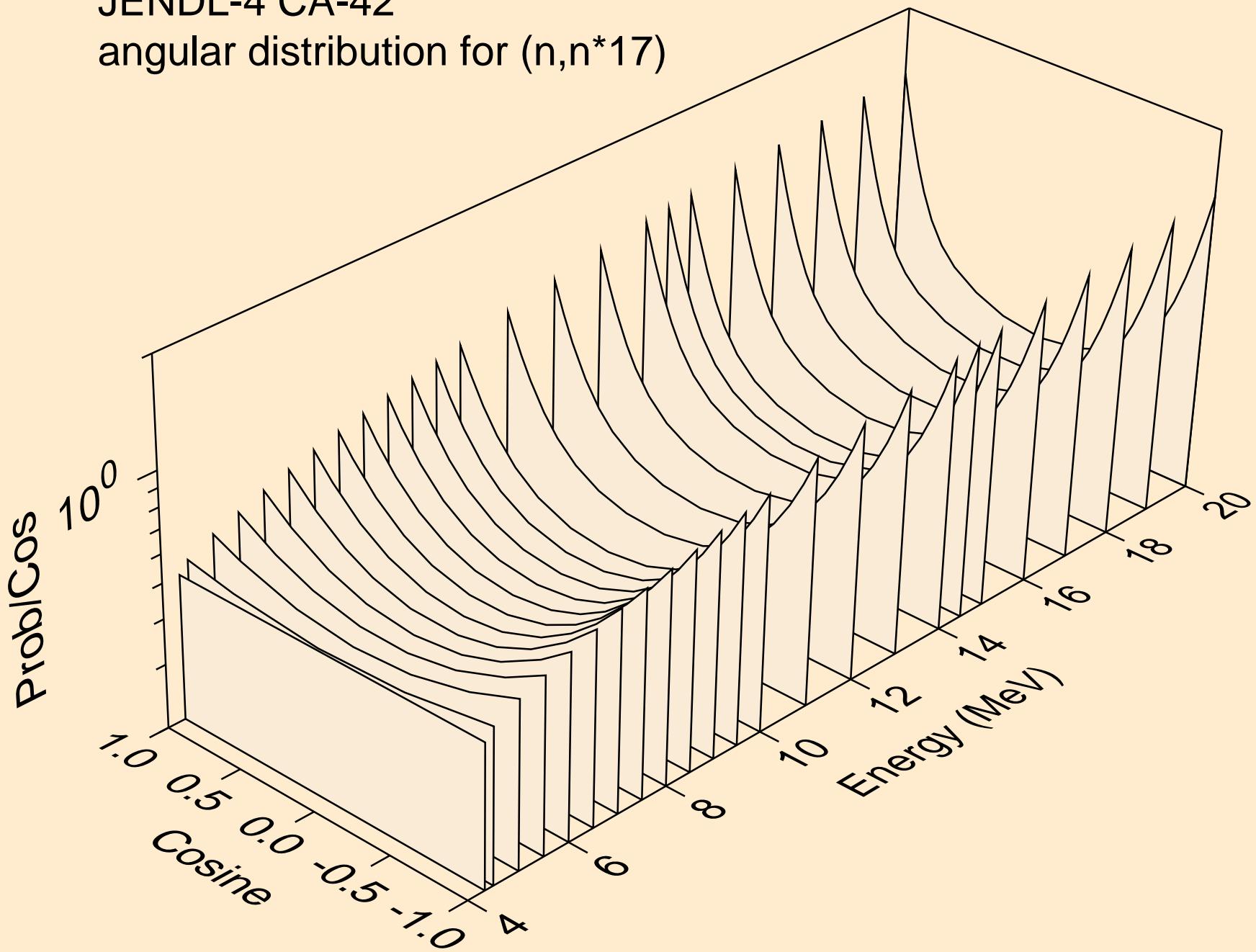
JENDL-4 CA-42  
angular distribution for  $(n,n^*15)$



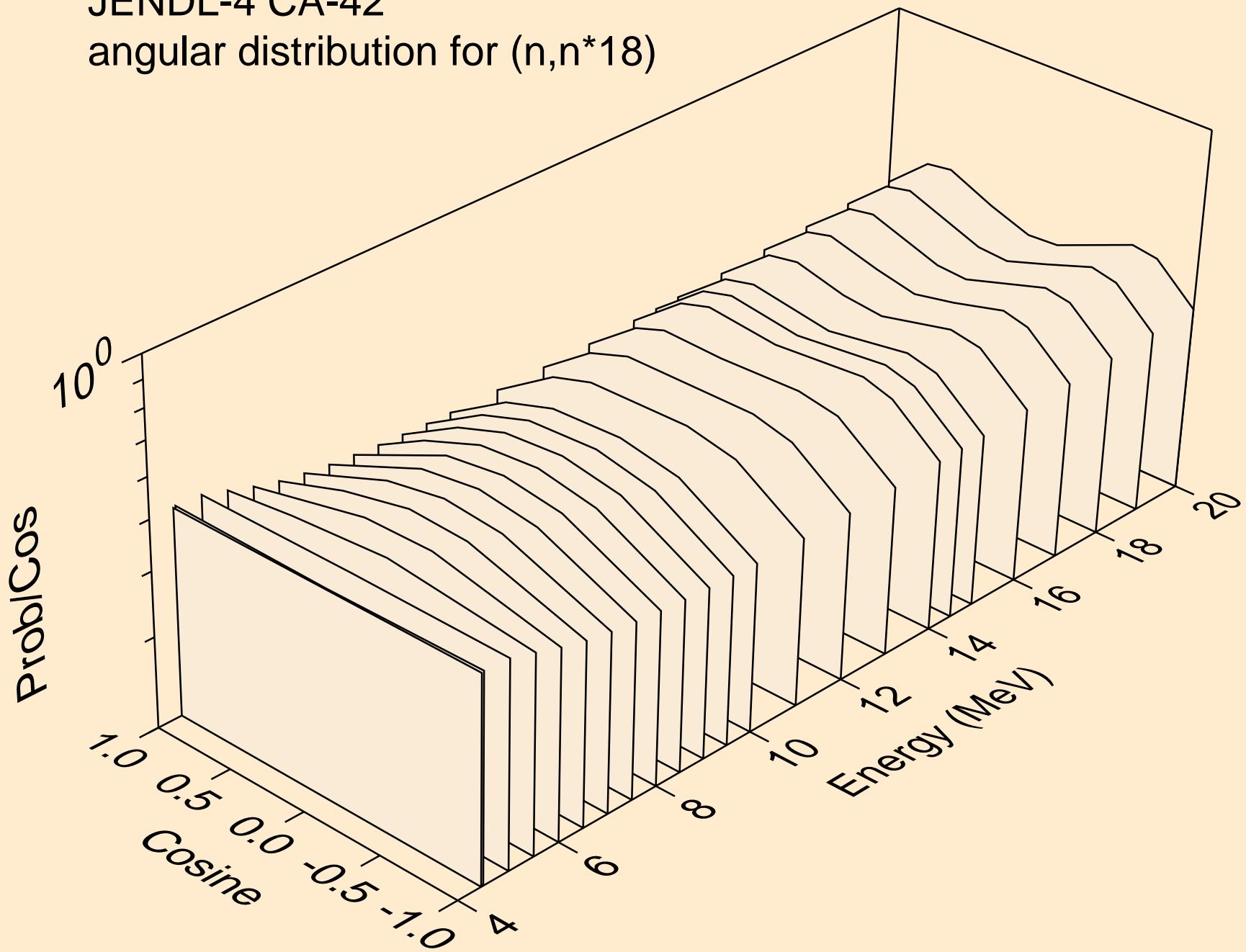
JENDL-4 CA-42  
angular distribution for  $(n,n^*16)$



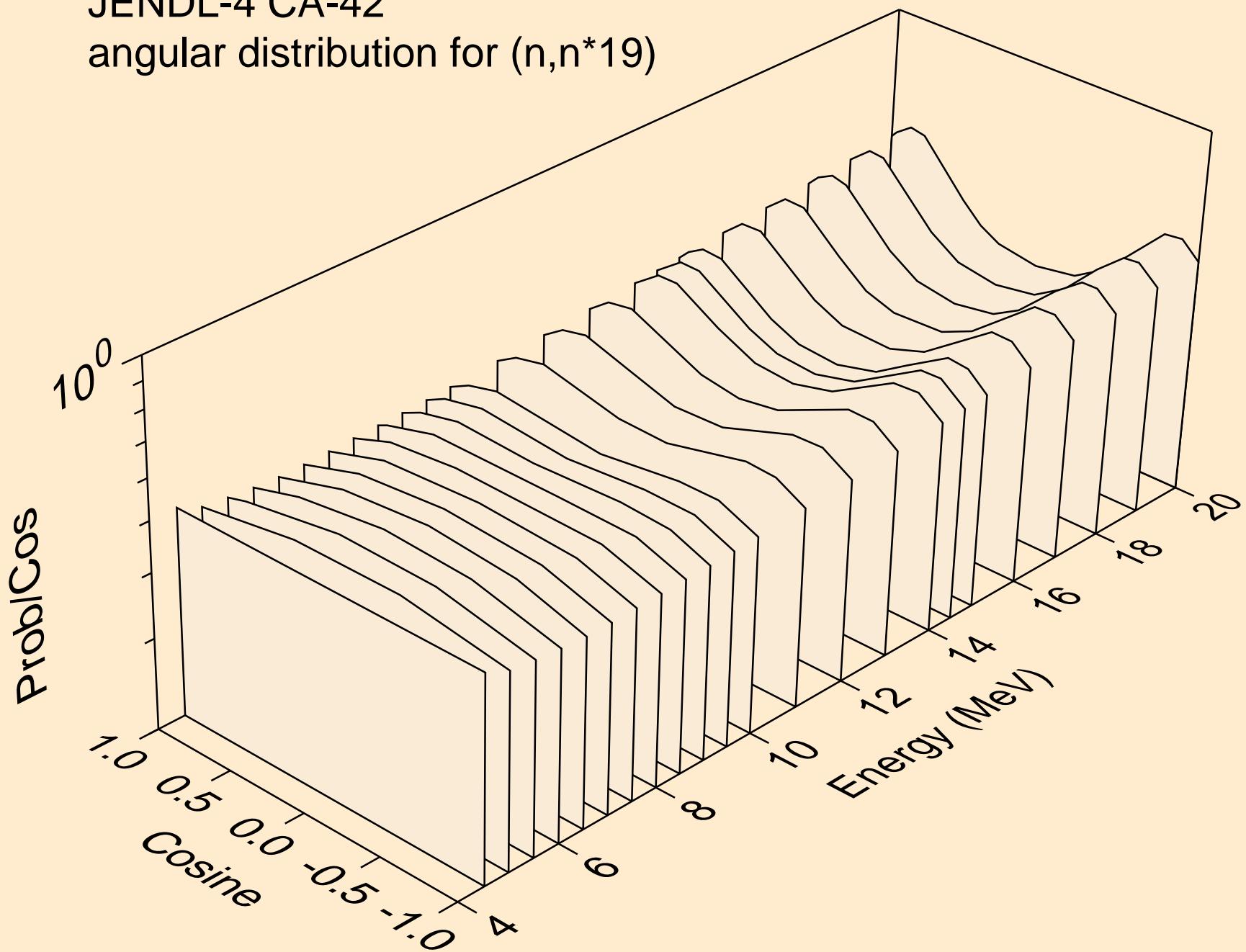
JENDL-4 CA-42  
angular distribution for  $(n,n^*17)$



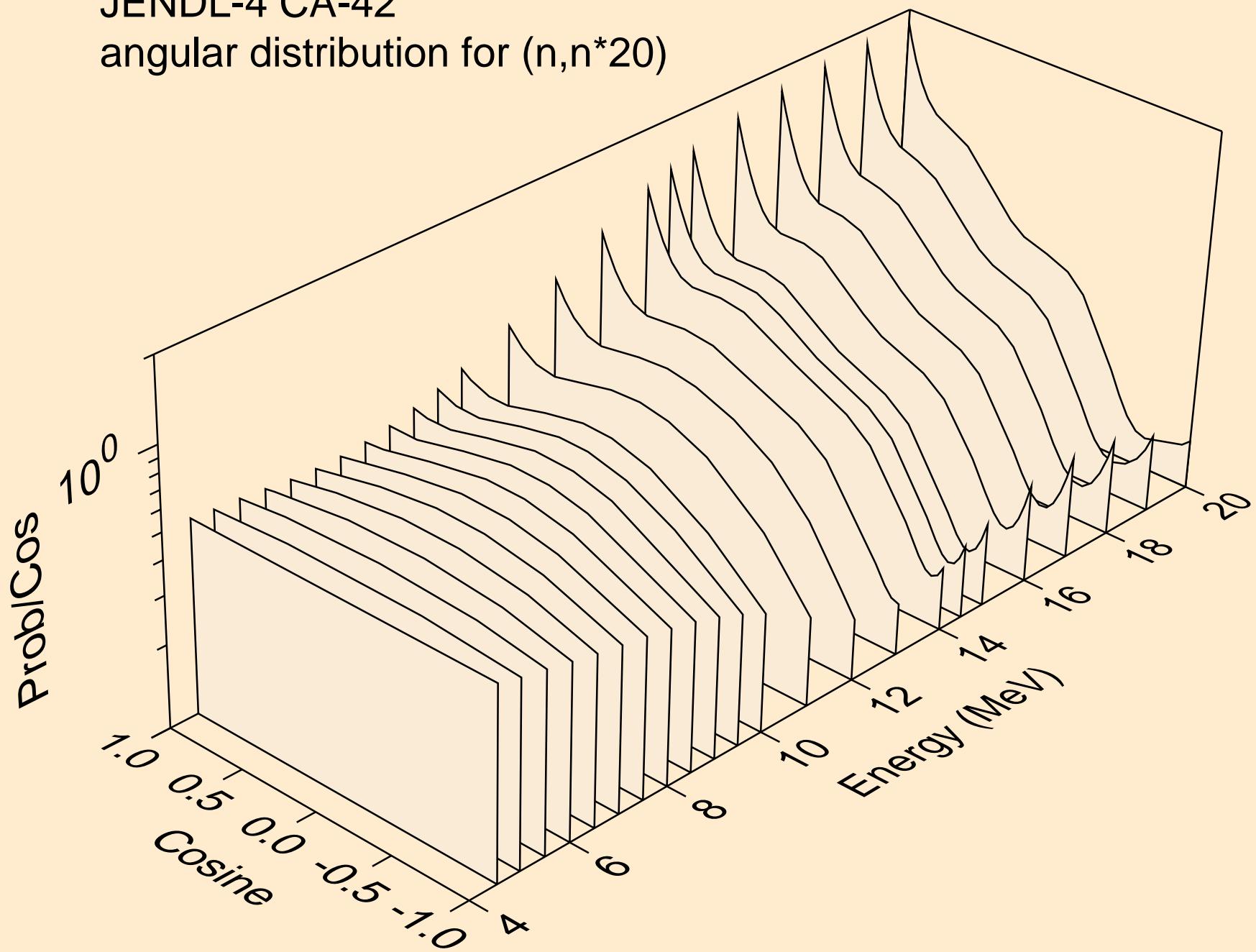
JENDL-4 CA-42  
angular distribution for  $(n,n^*18)$



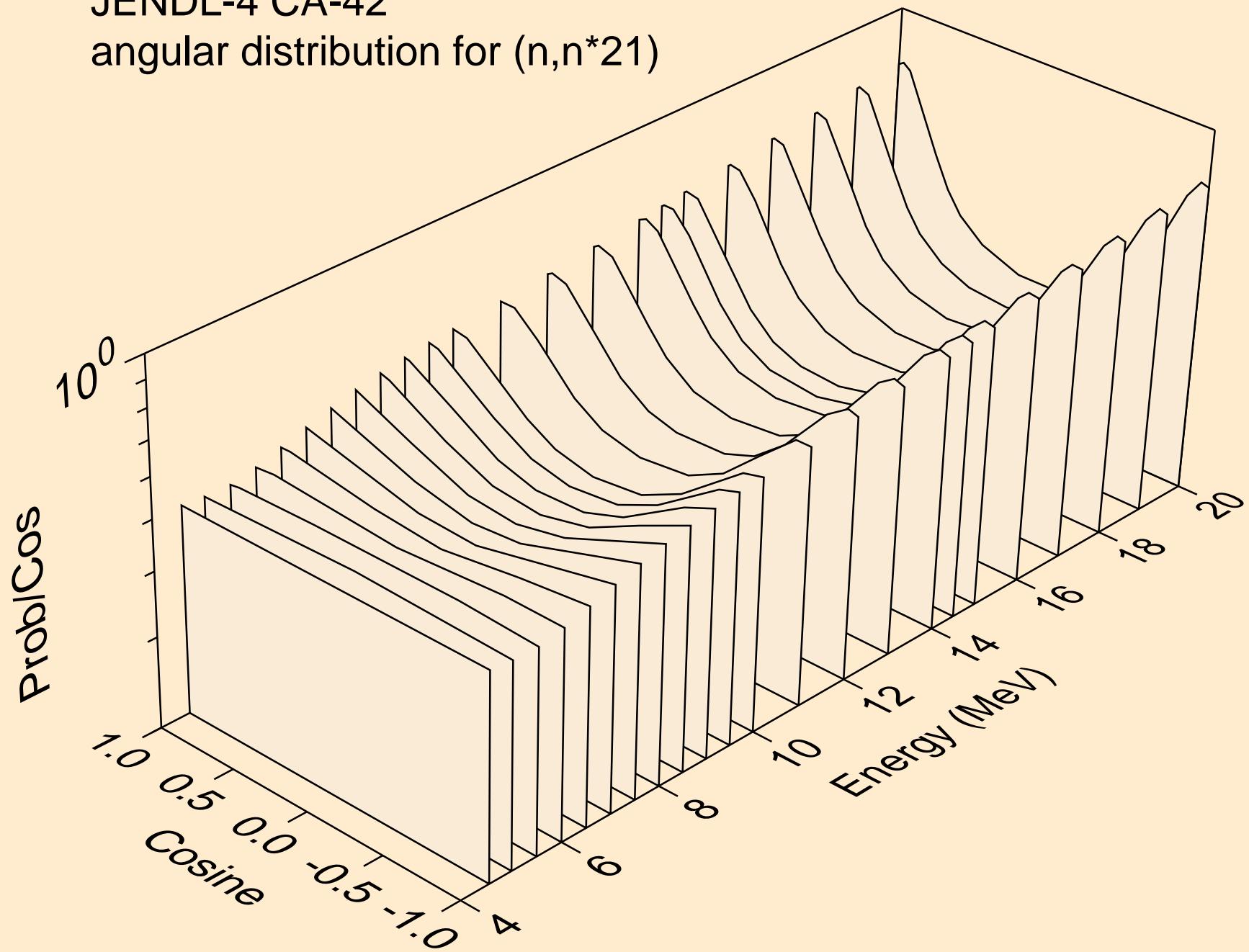
JENDL-4 CA-42  
angular distribution for (n,n\*19)



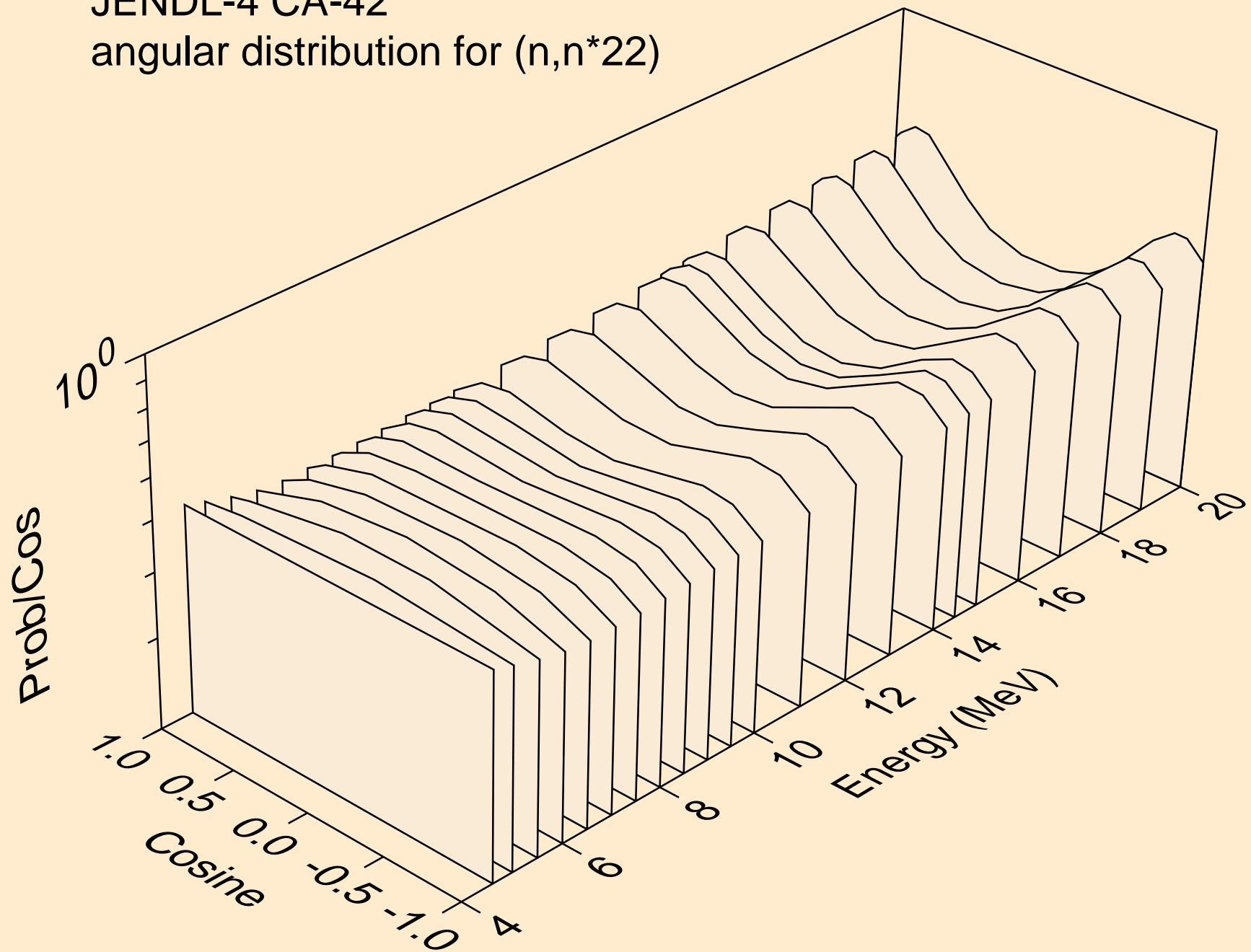
JENDL-4 CA-42  
angular distribution for  $(n,n^*20)$



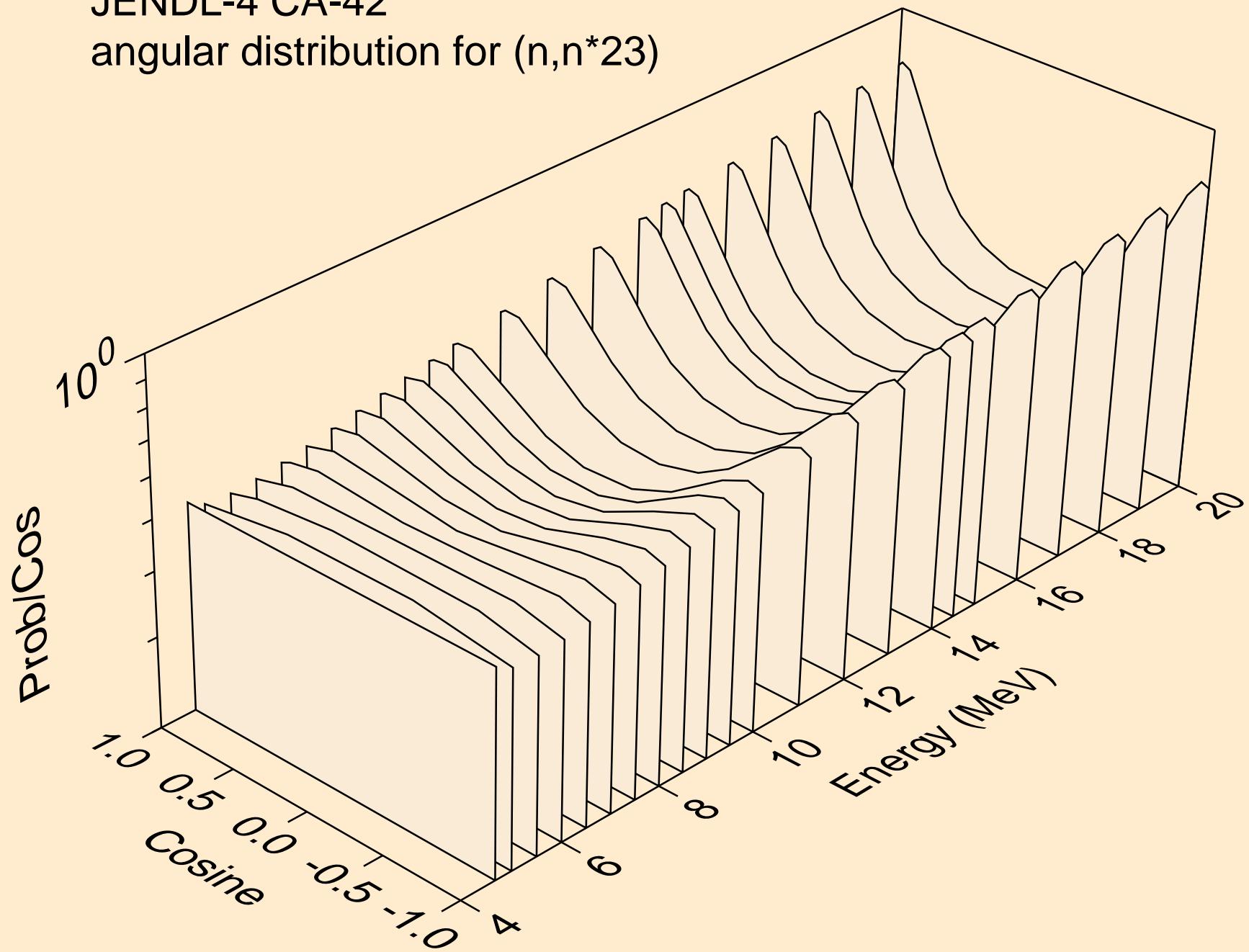
JENDL-4 CA-42  
angular distribution for  $(n,n^*21)$



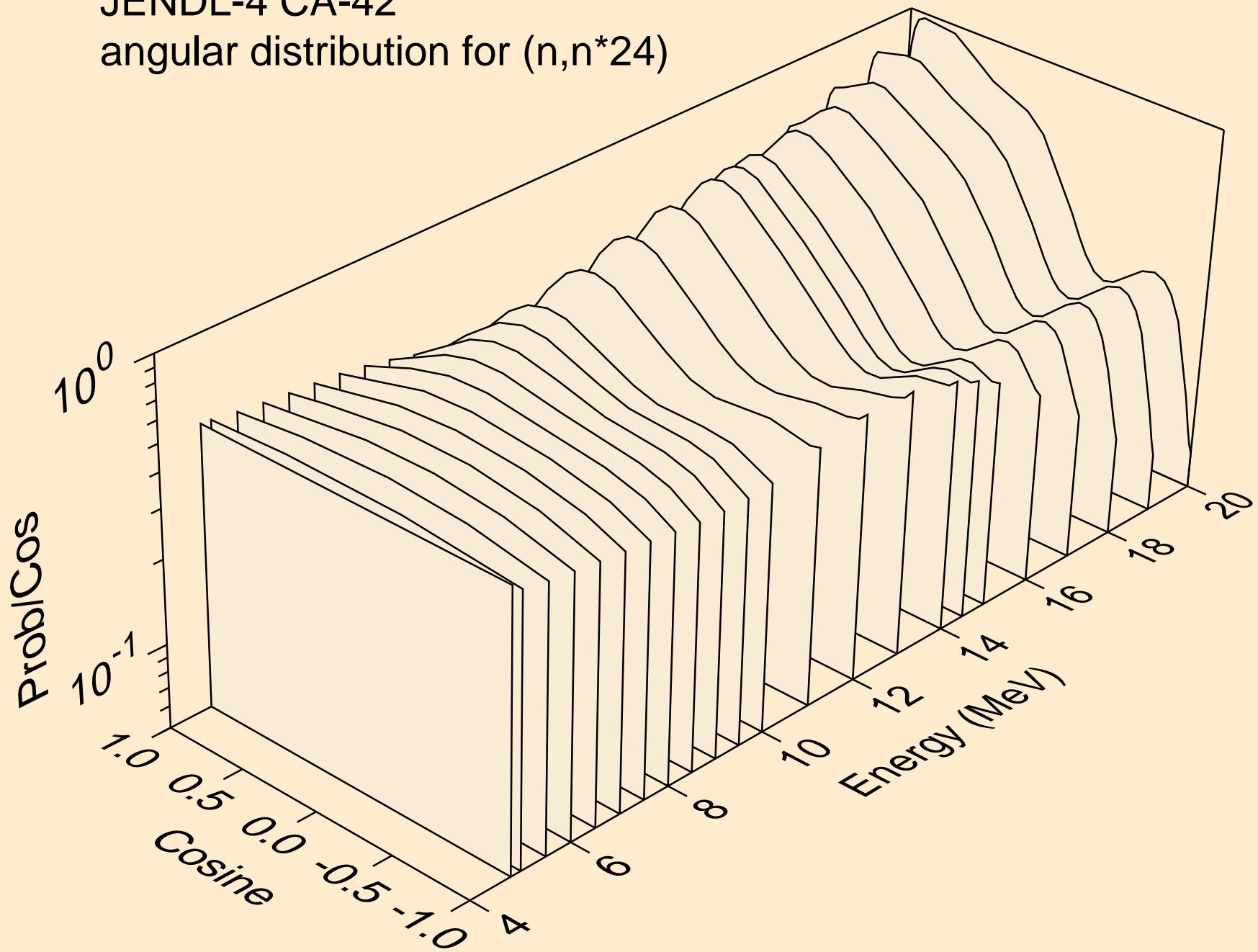
JENDL-4 CA-42  
angular distribution for  $(n,n^*22)$



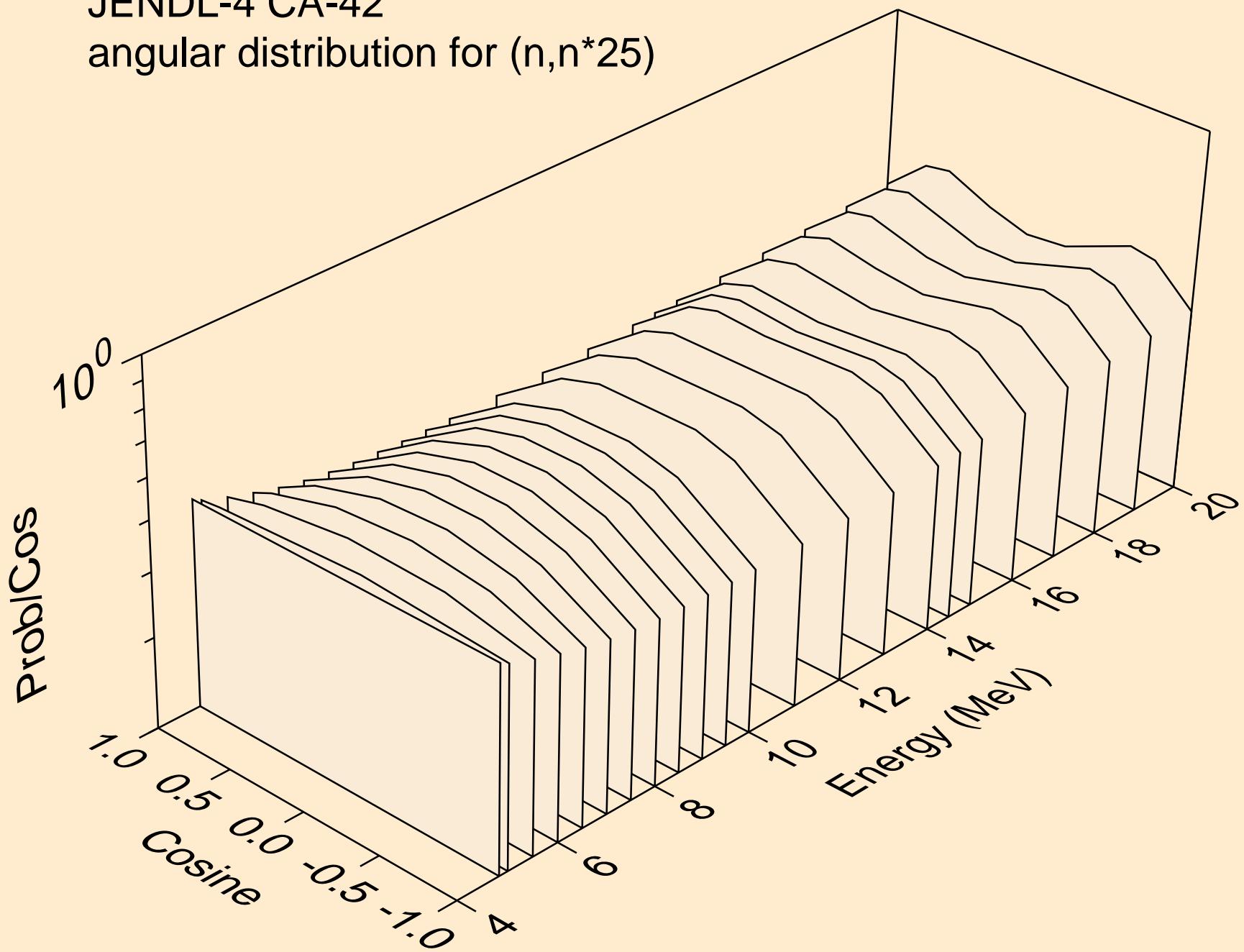
JENDL-4 CA-42  
angular distribution for  $(n,n^*23)$



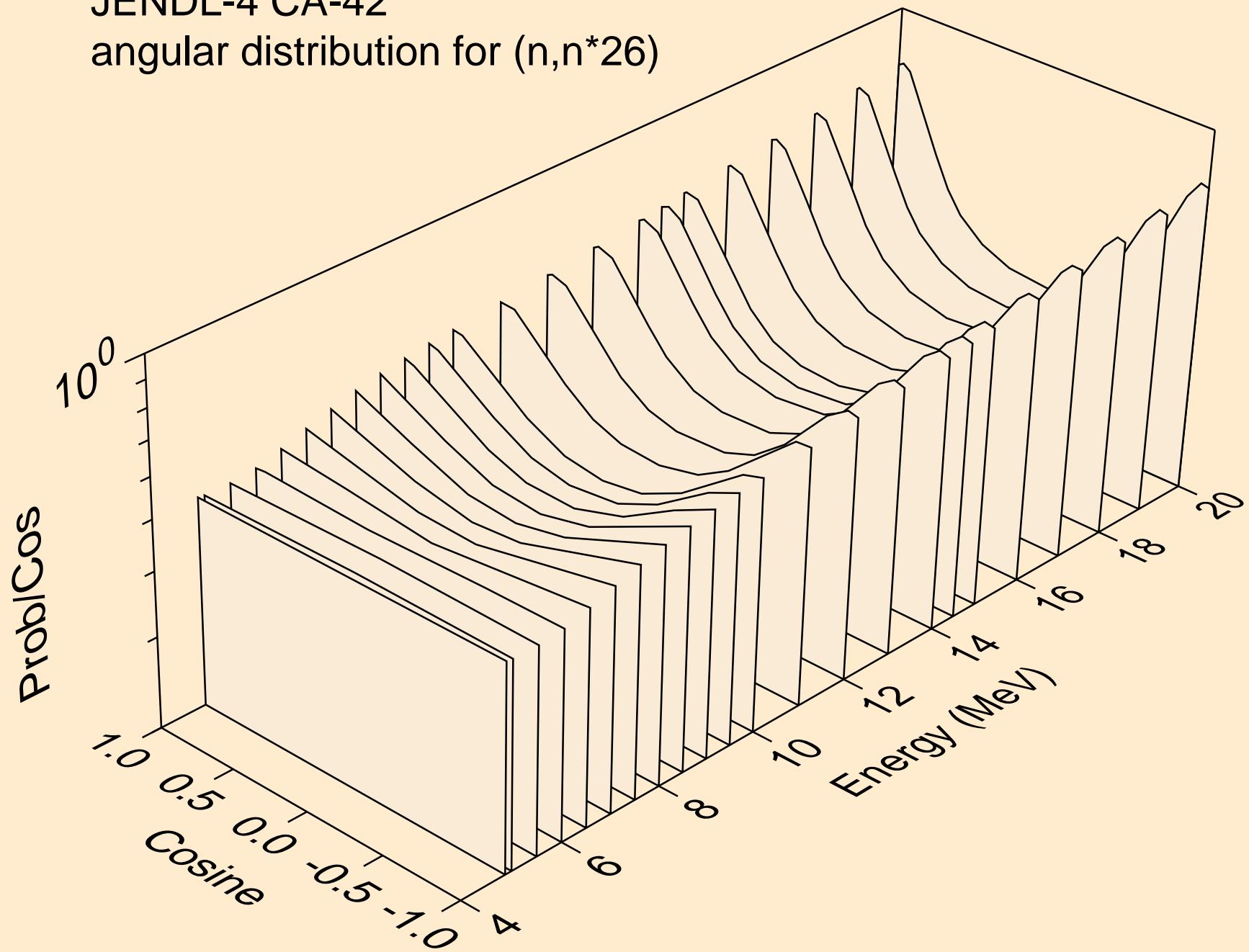
JENDL-4 CA-42  
angular distribution for  $(n,n^*24)$



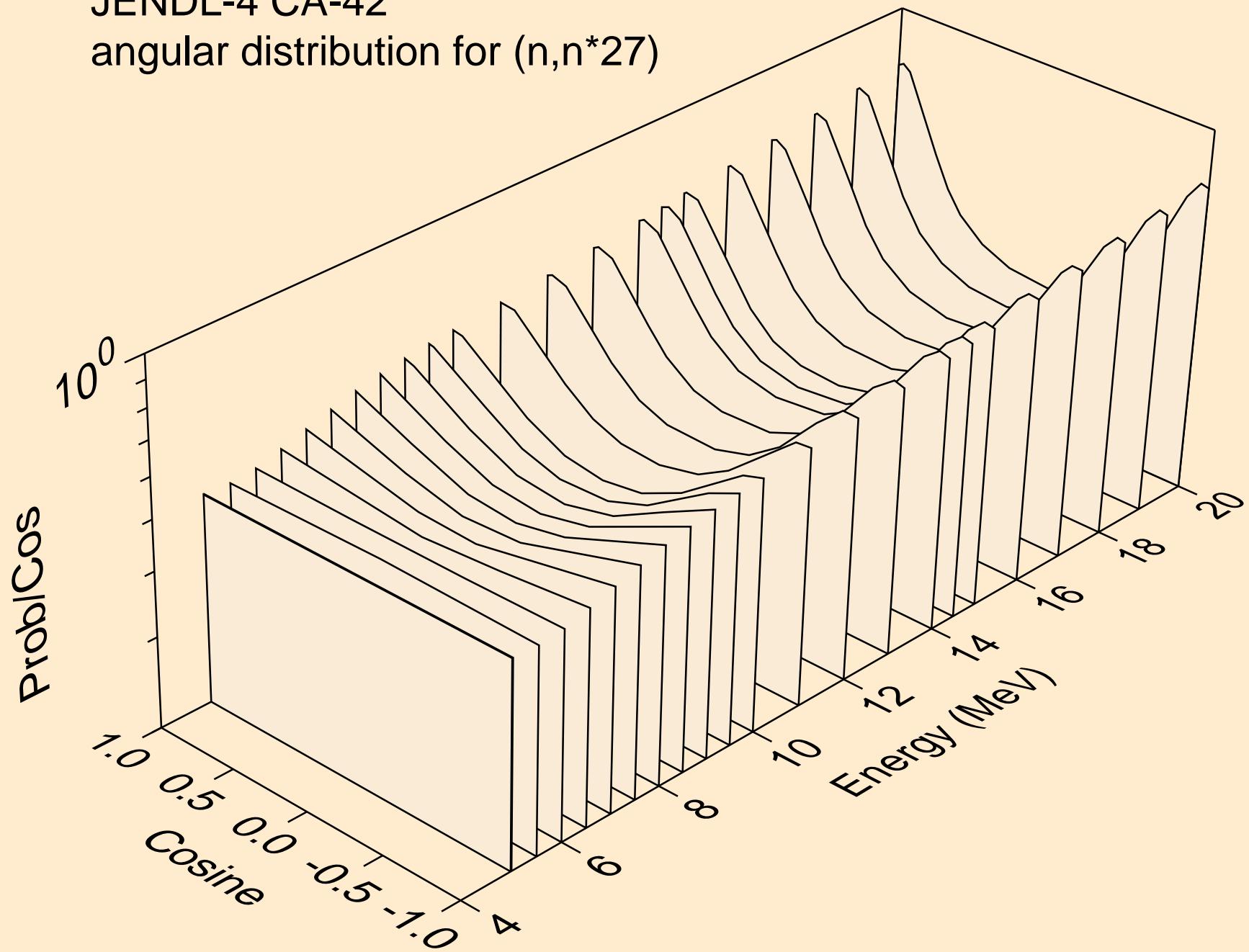
JENDL-4 CA-42  
angular distribution for (n,n\*25)



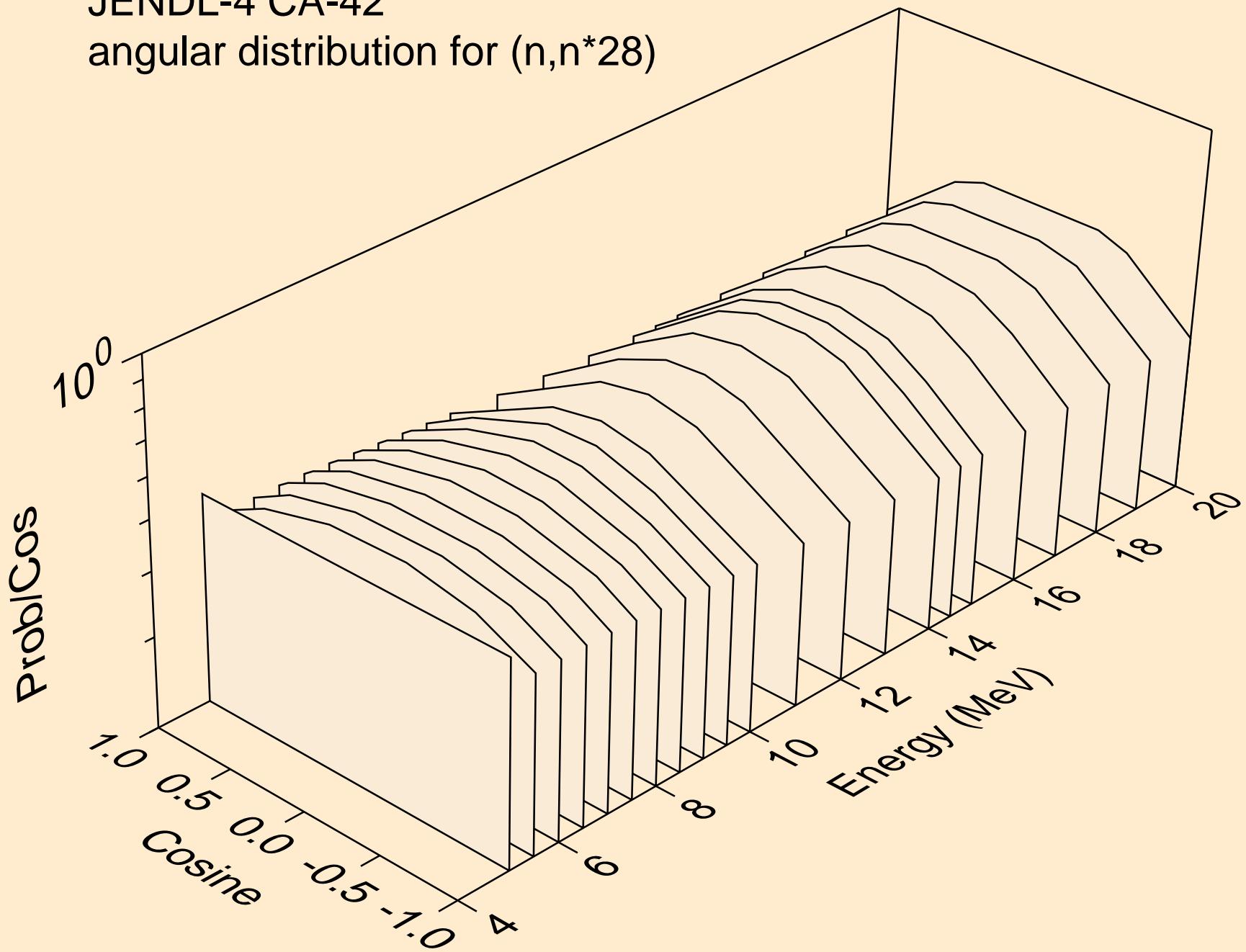
JENDL-4 CA-42  
angular distribution for  $(n,n^*26)$



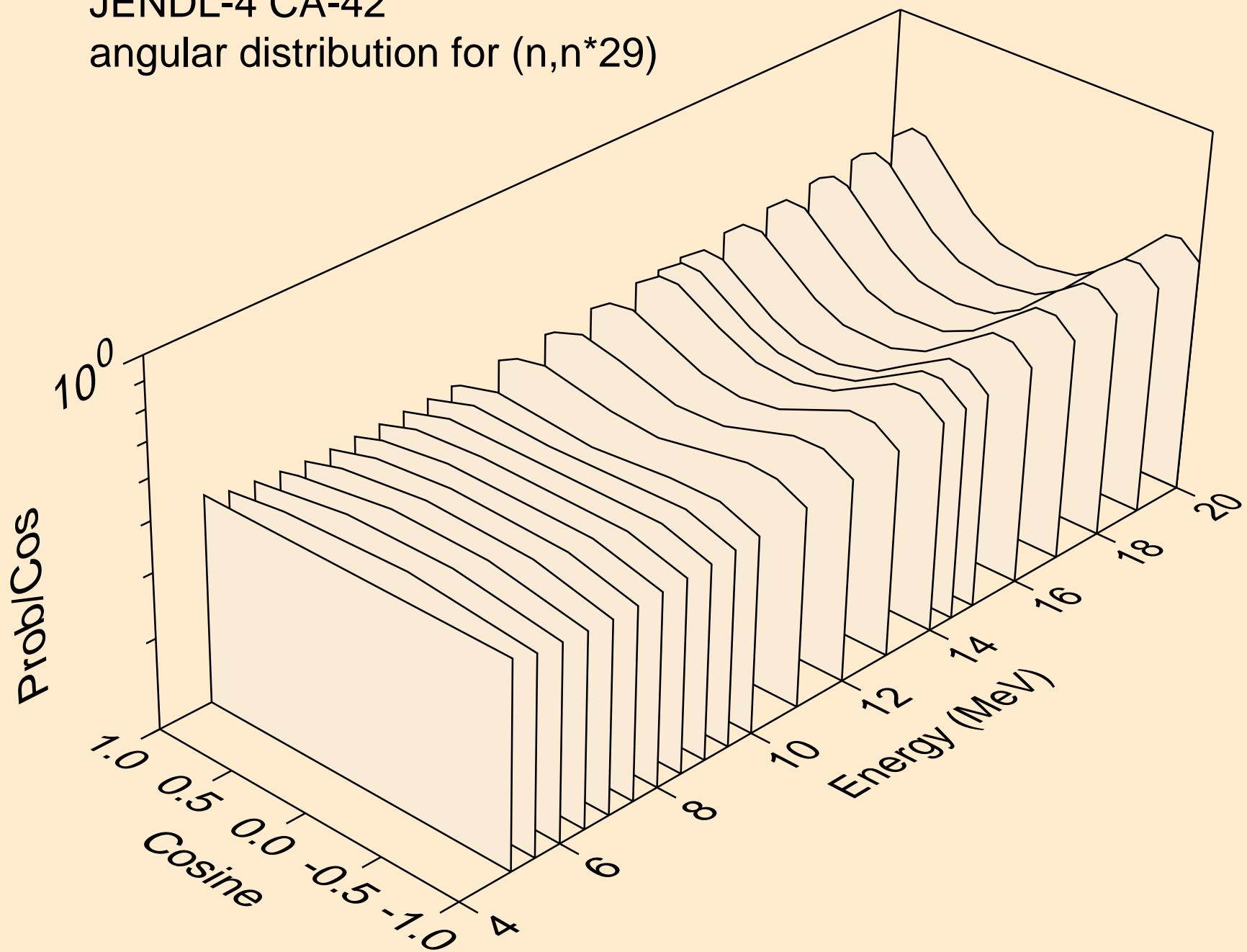
JENDL-4 CA-42  
angular distribution for  $(n,n^*27)$



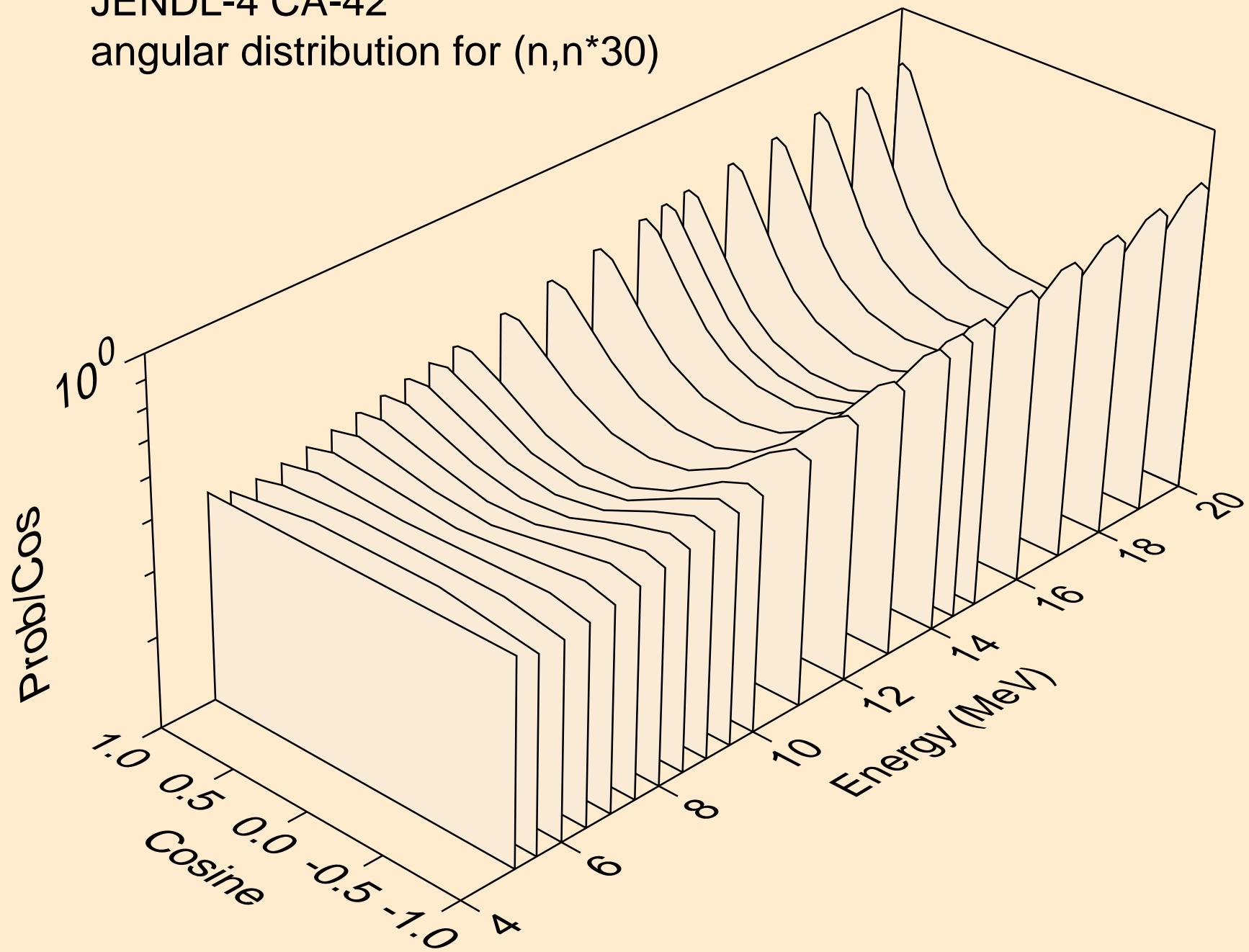
JENDL-4 CA-42  
angular distribution for (n,n\*28)



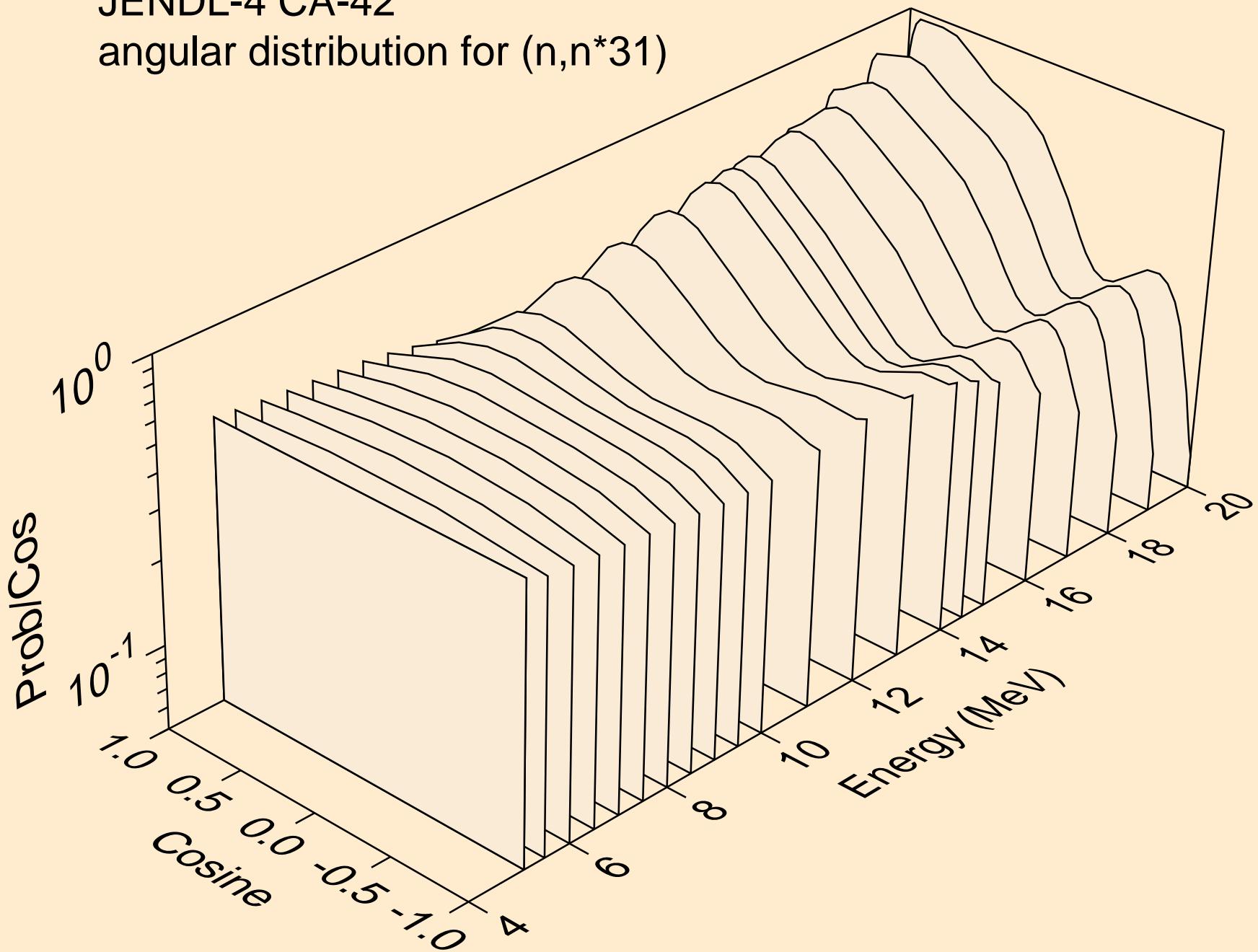
JENDL-4 CA-42  
angular distribution for  $(n,n^*29)$



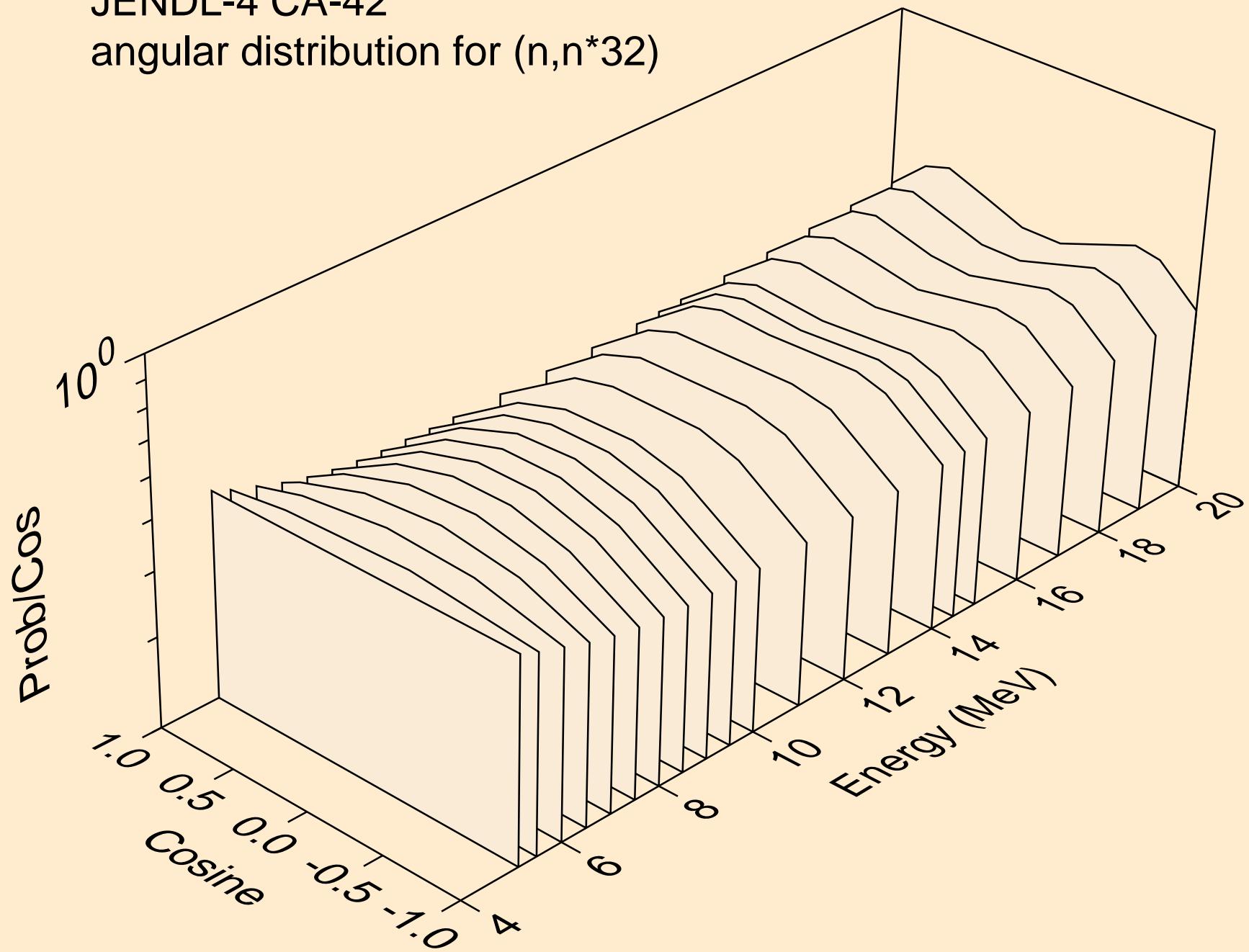
JENDL-4 CA-42  
angular distribution for (n,n\*30)



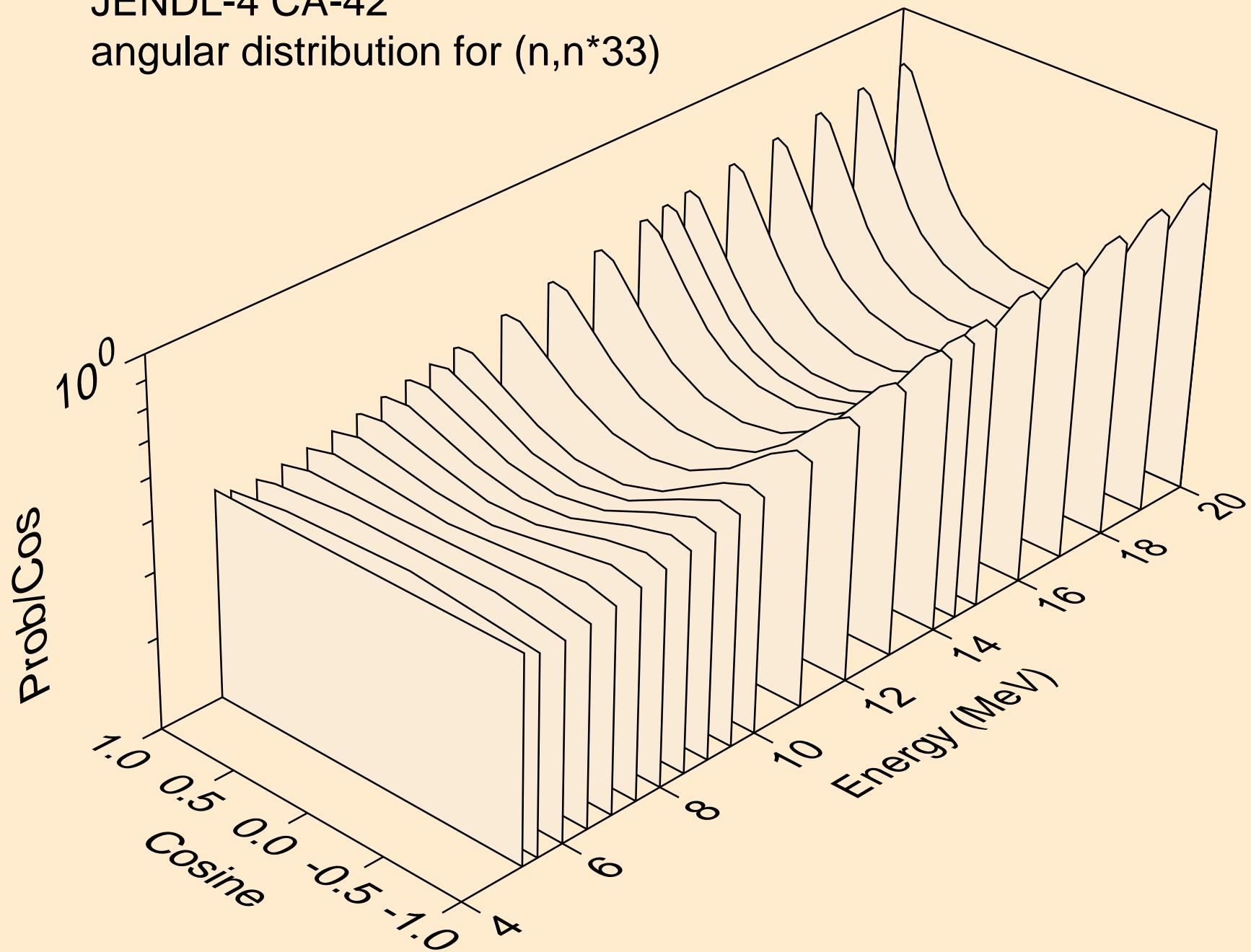
JENDL-4 CA-42  
angular distribution for (n,n\*31)



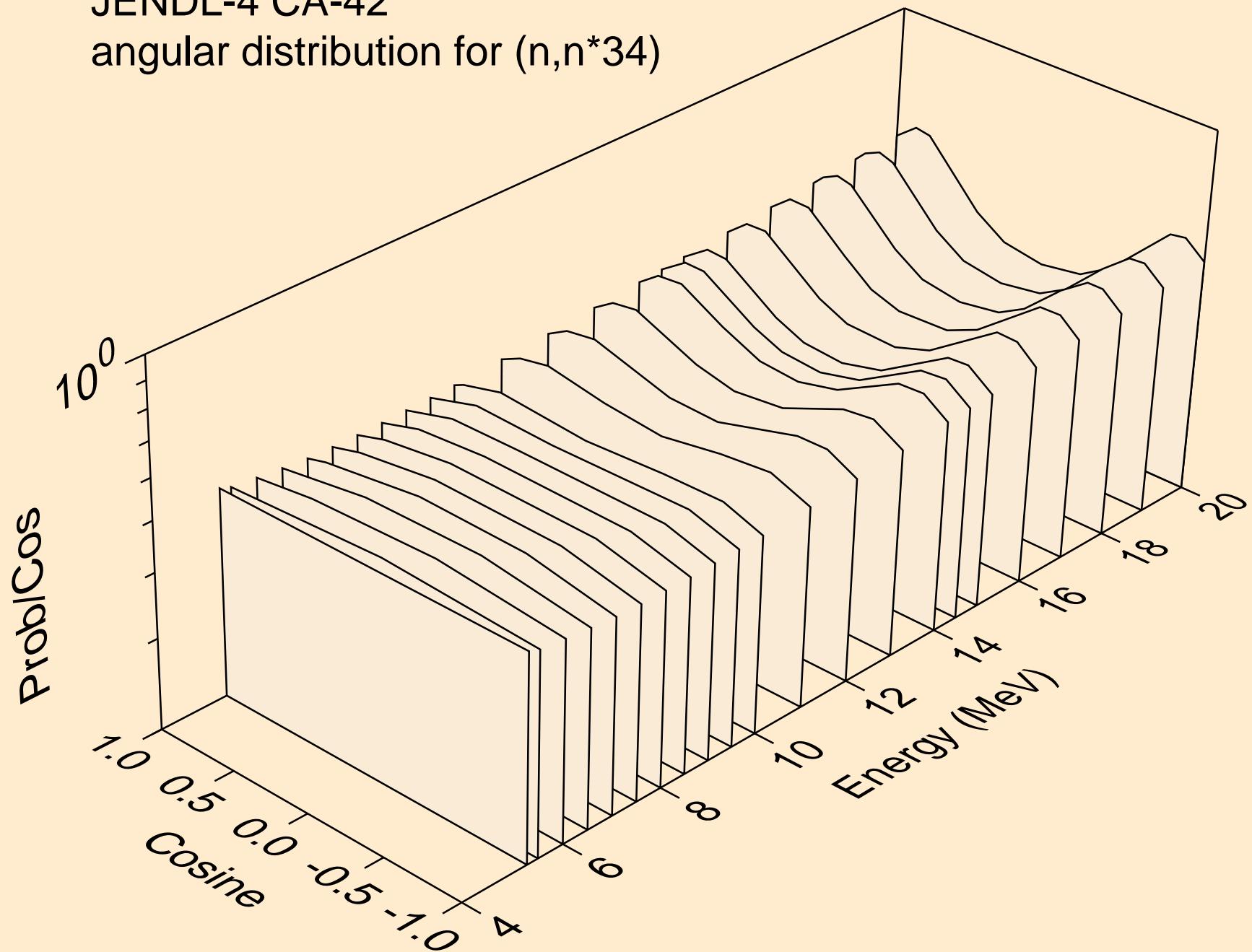
JENDL-4 CA-42  
angular distribution for  $(n,n^*32)$



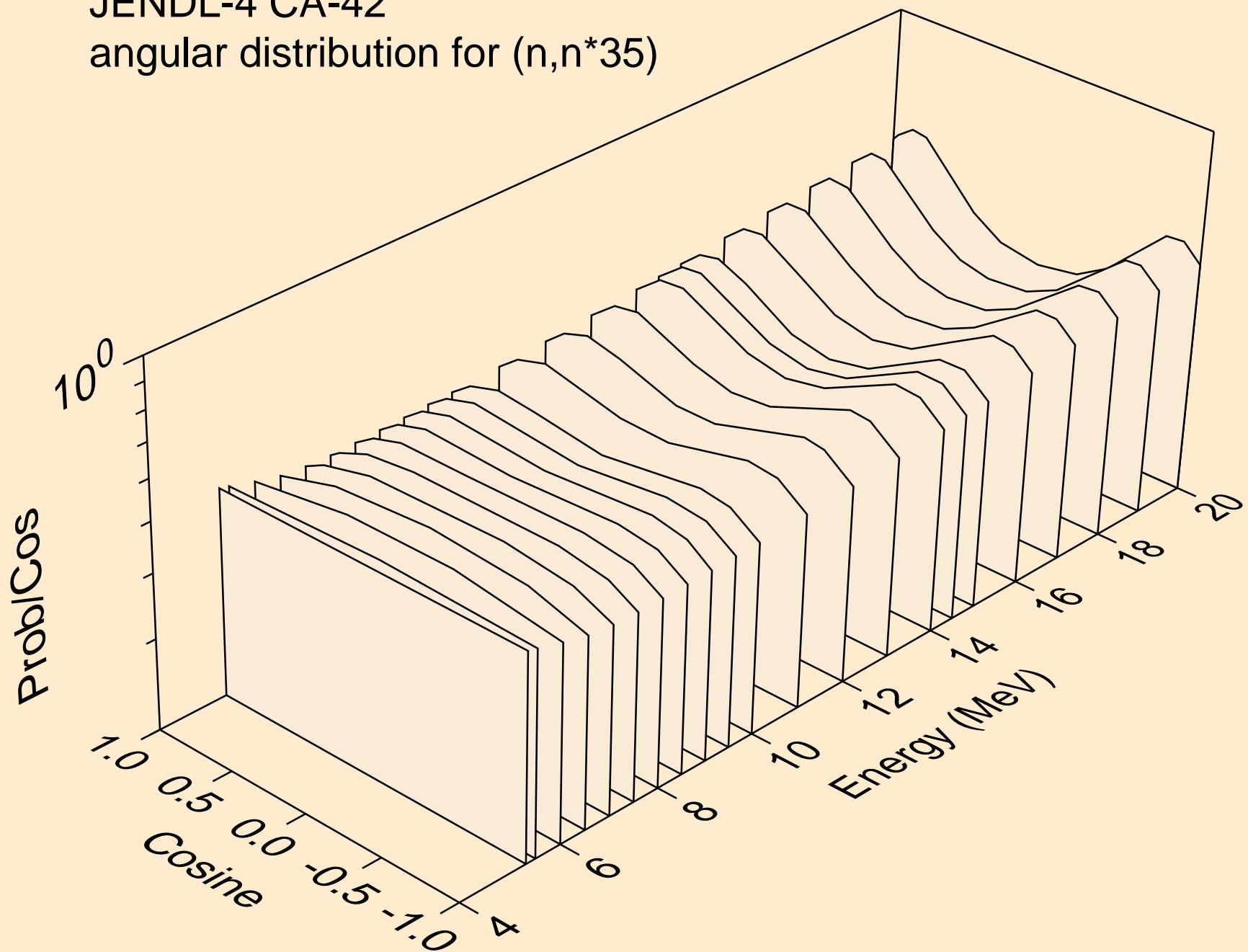
JENDL-4 CA-42  
angular distribution for  $(n,n^*33)$



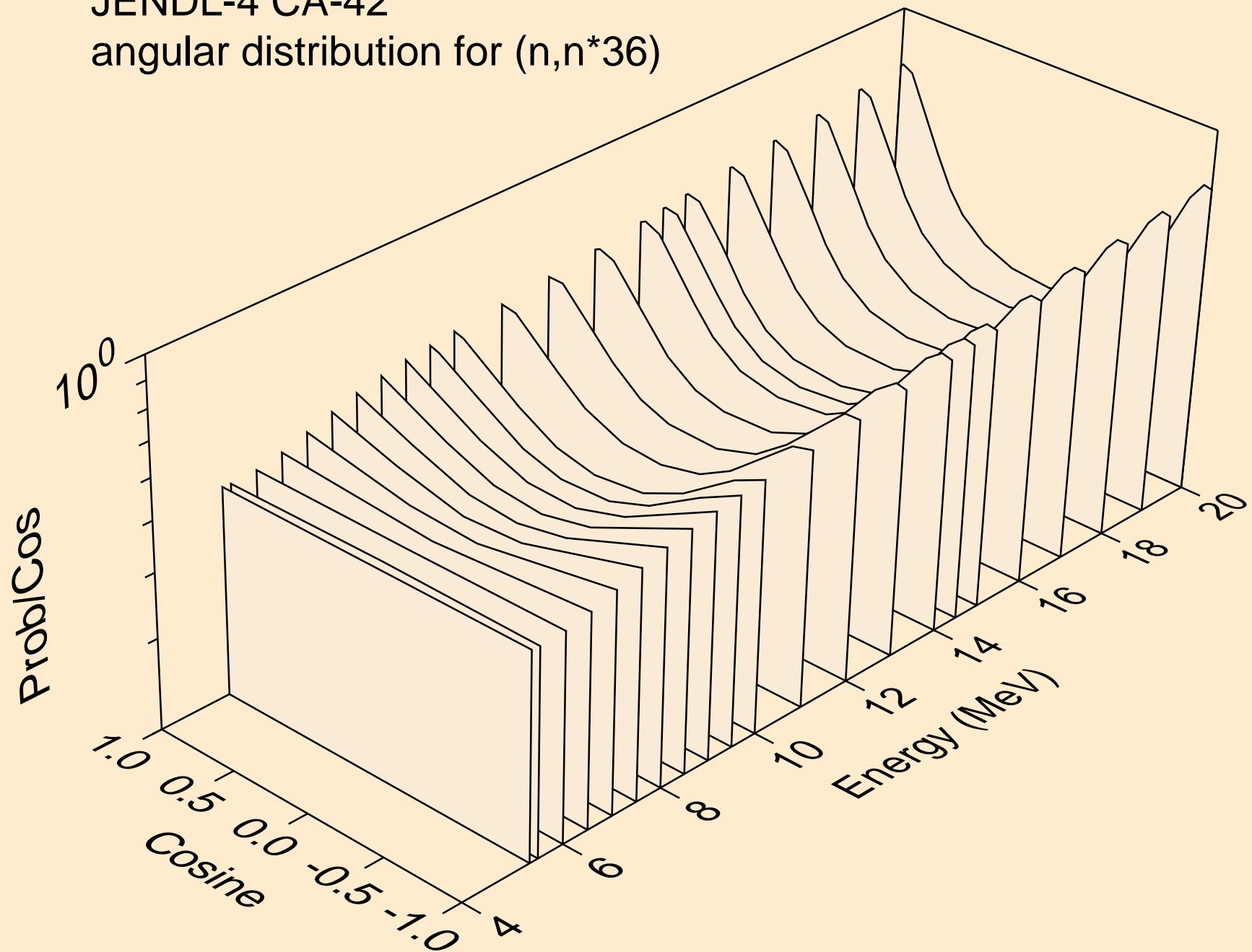
JENDL-4 CA-42  
angular distribution for  $(n,n^*34)$



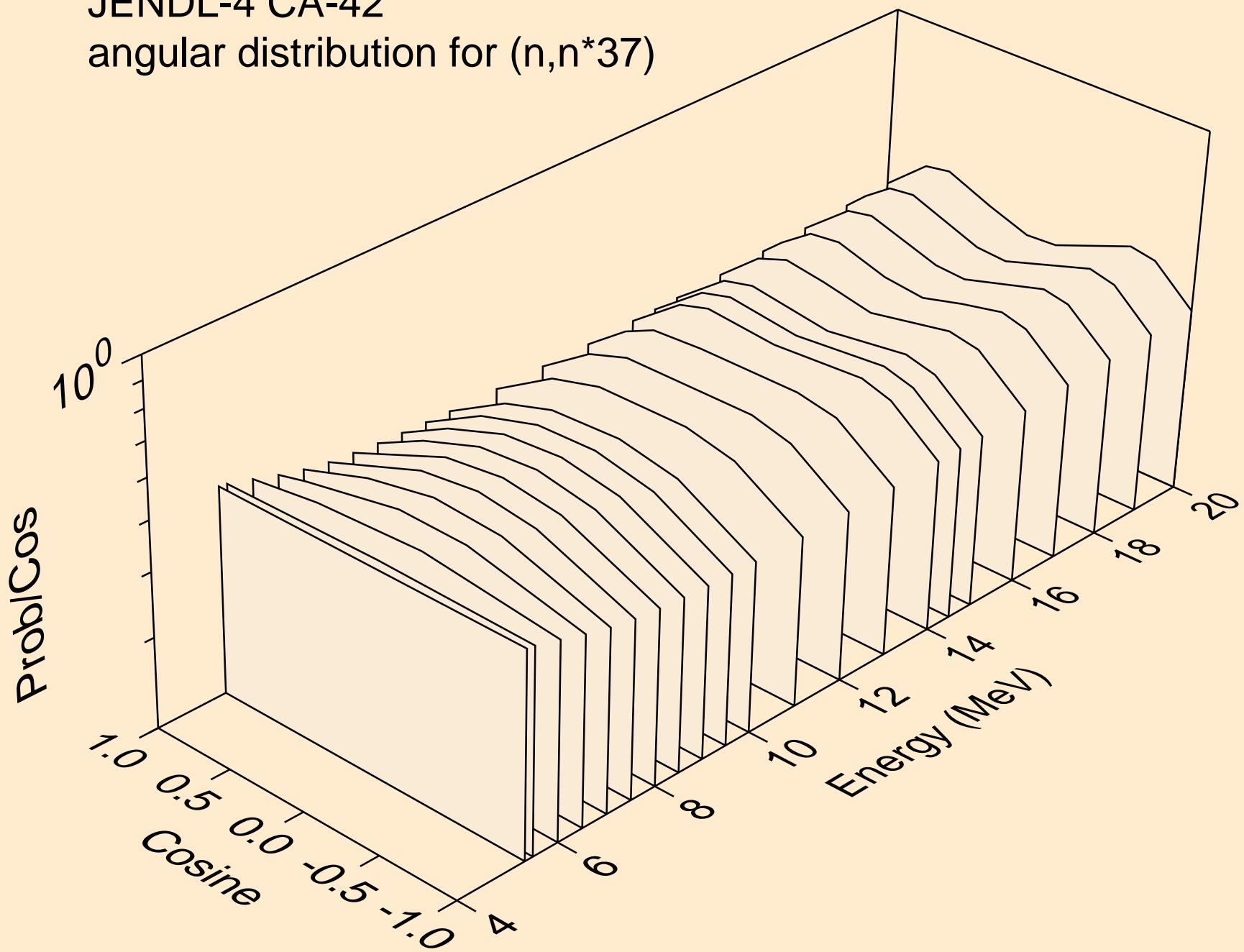
JENDL-4 CA-42  
angular distribution for  $(n,n^*35)$



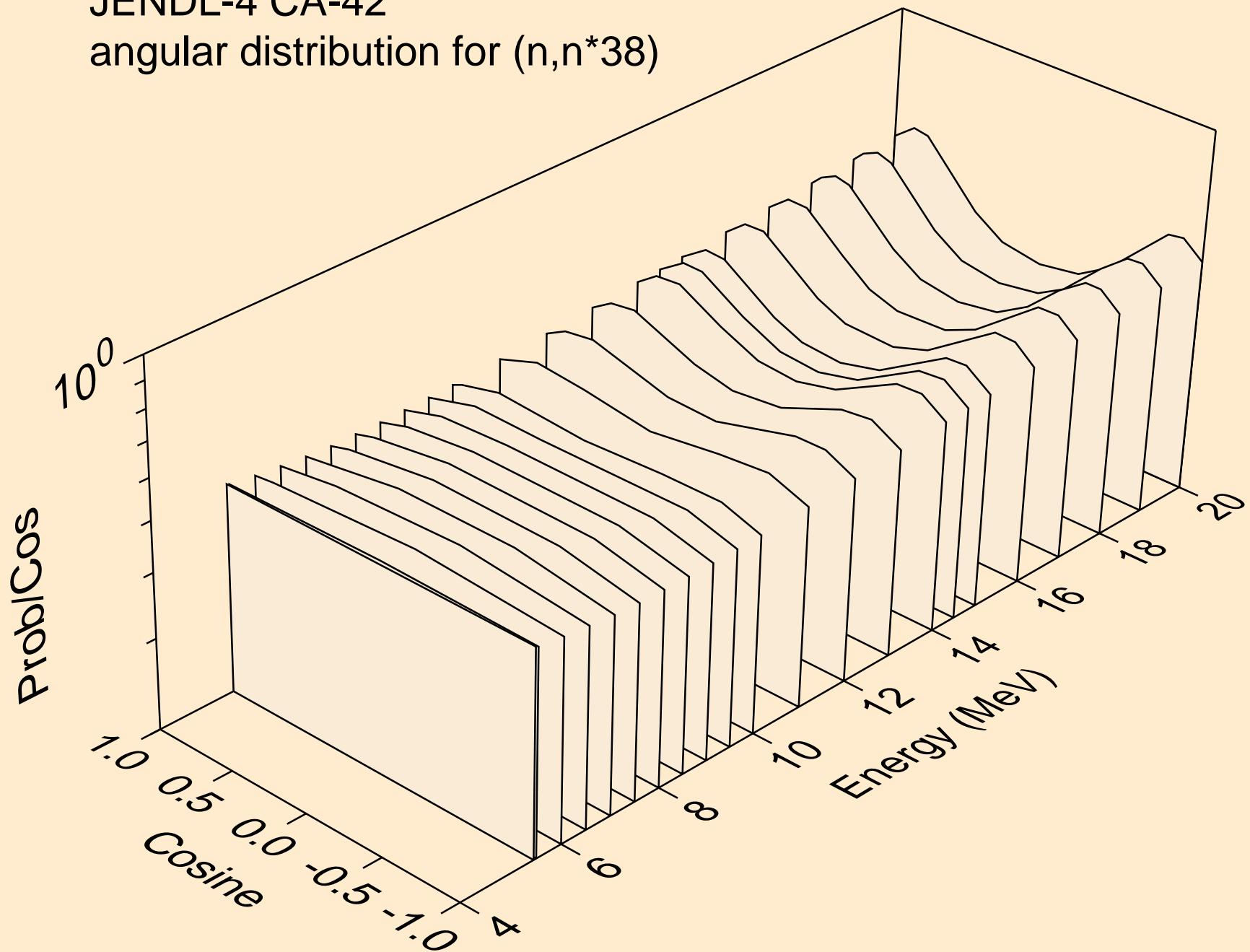
JENDL-4 CA-42  
angular distribution for  $(n,n^*36)$



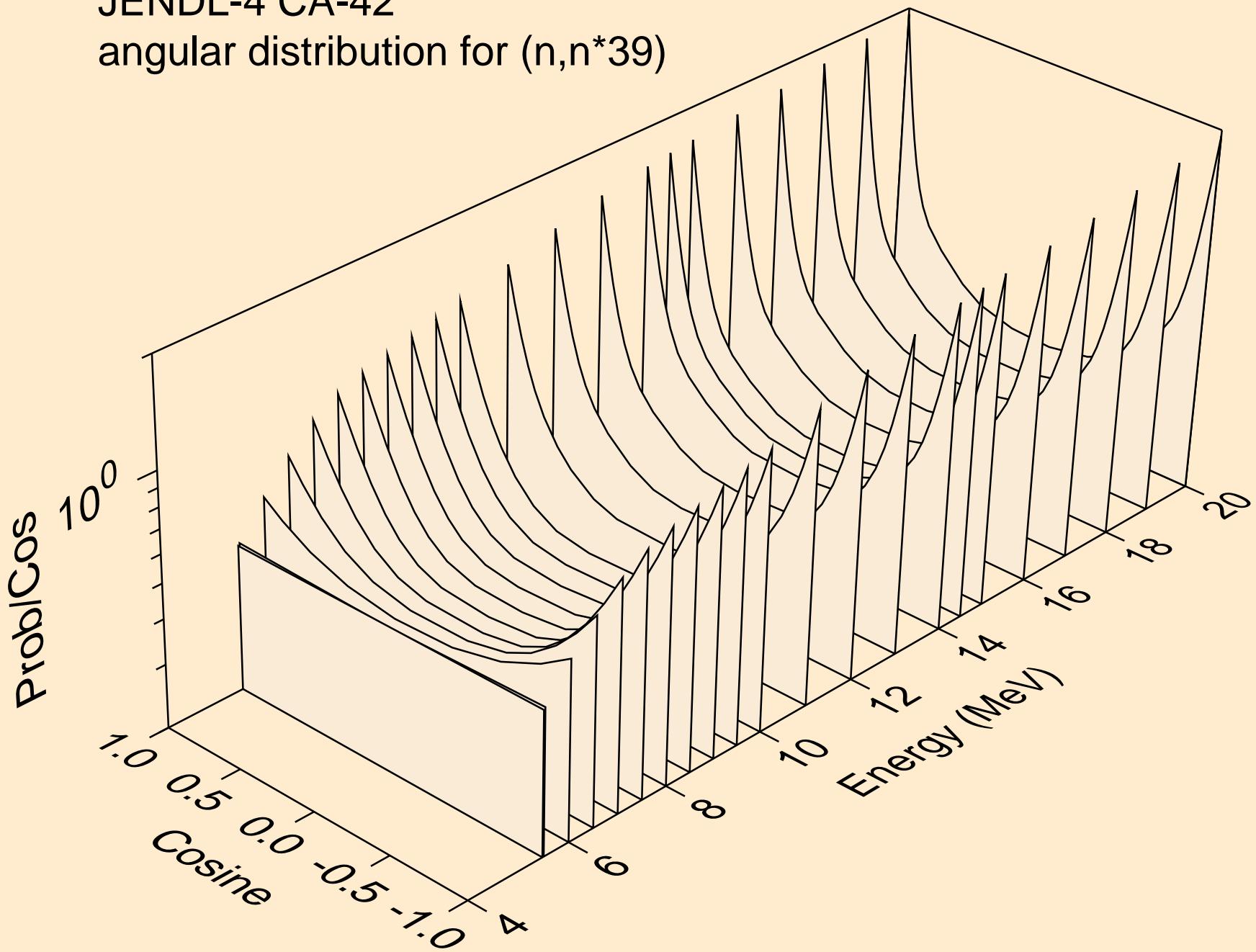
JENDL-4 CA-42  
angular distribution for ( $n, n^* 37$ )



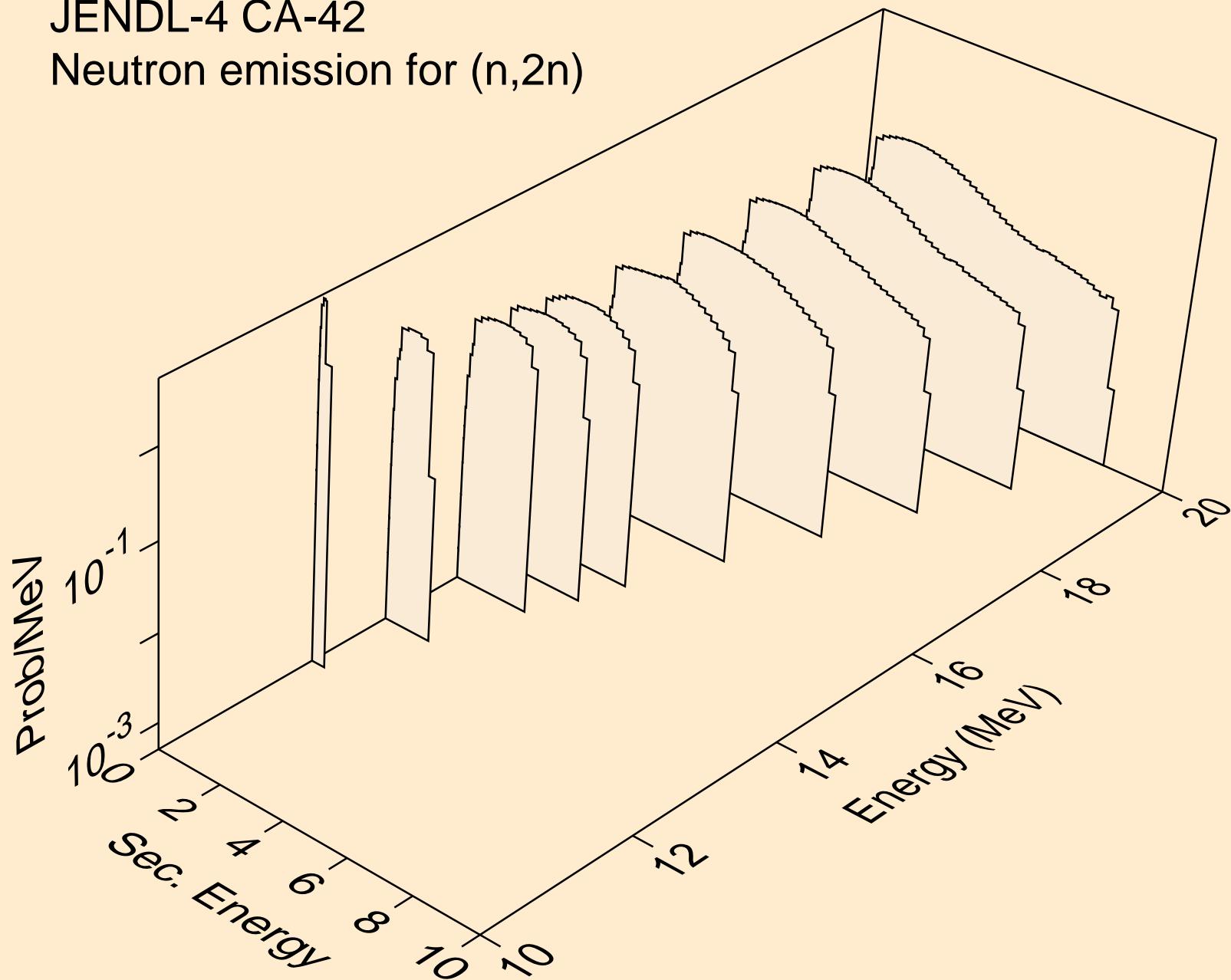
JENDL-4 CA-42  
angular distribution for  $(n,n^*38)$



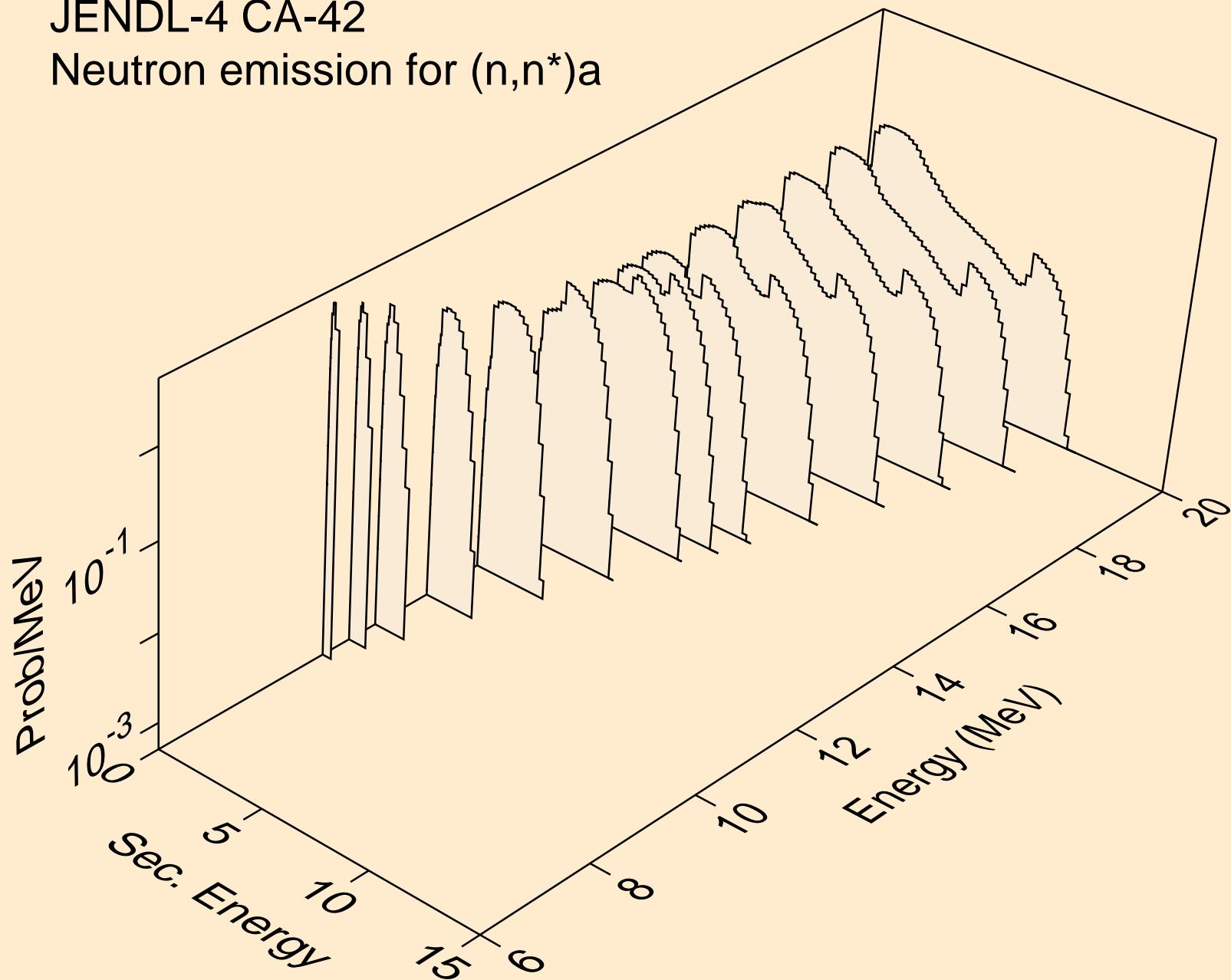
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angular distribution for  $(n,n^*39)$



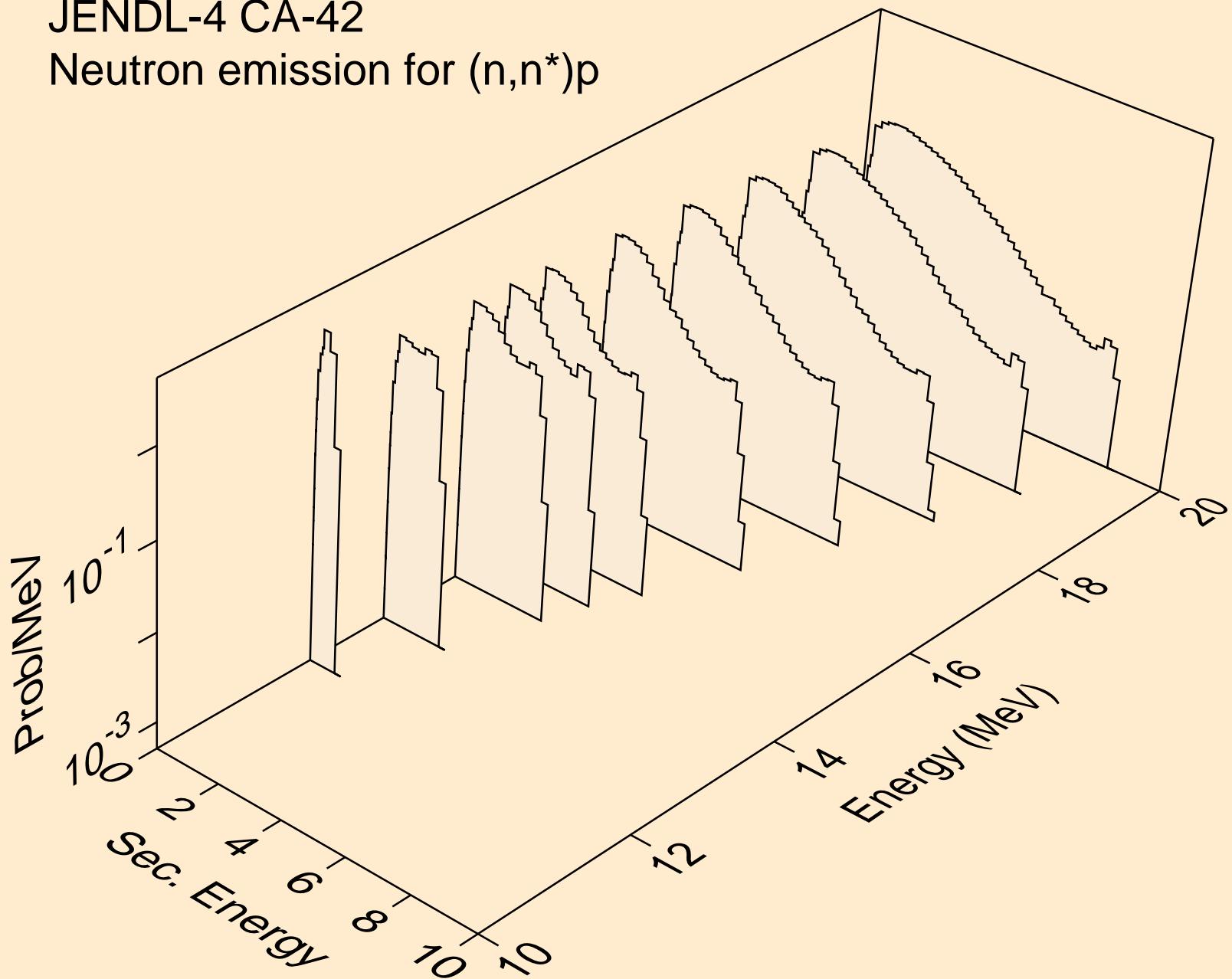
JENDL-4 CA-42  
Neutron emission for  $(n,2n)$



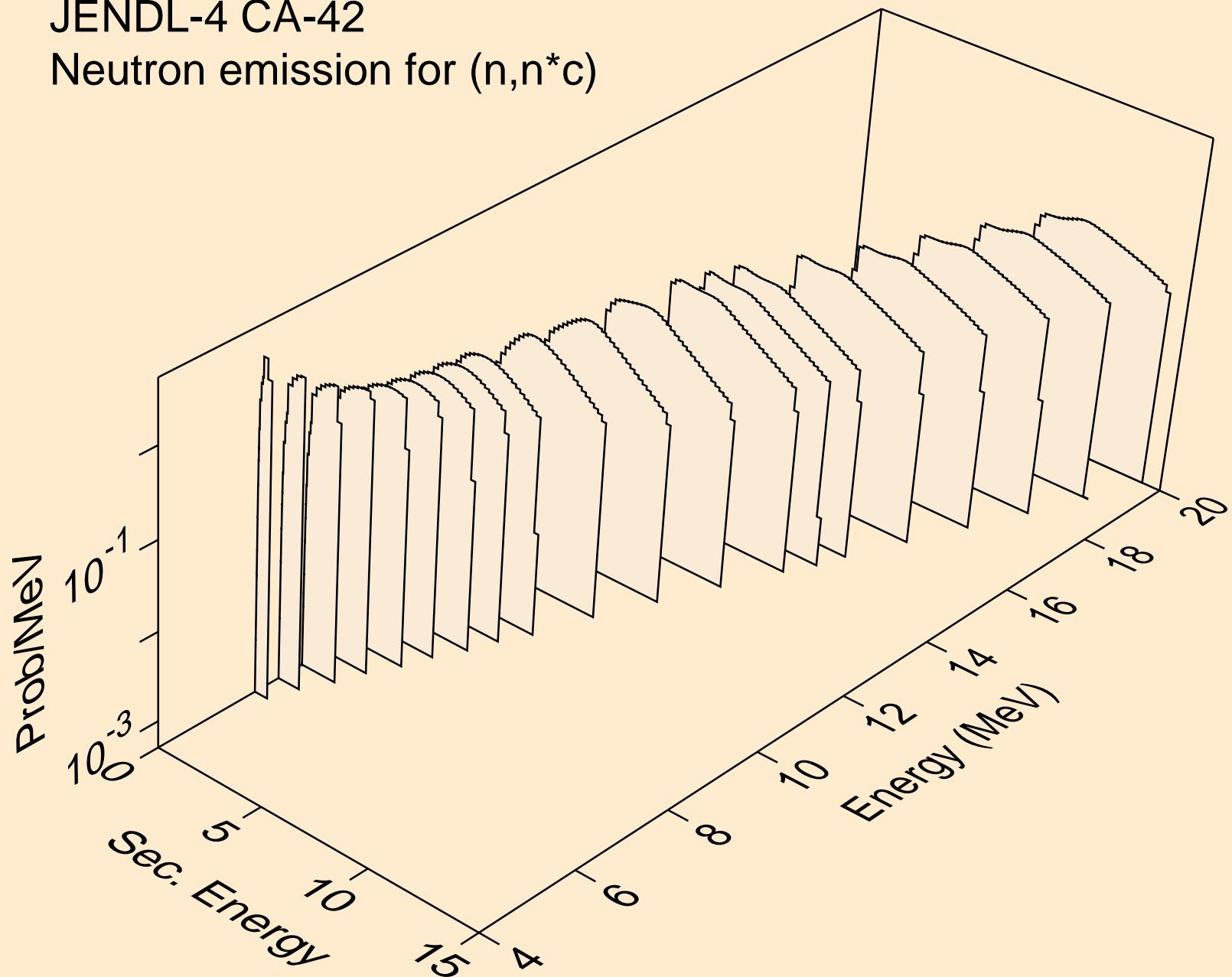
JENDL-4 CA-42  
Neutron emission for  $(n,n^*)a$



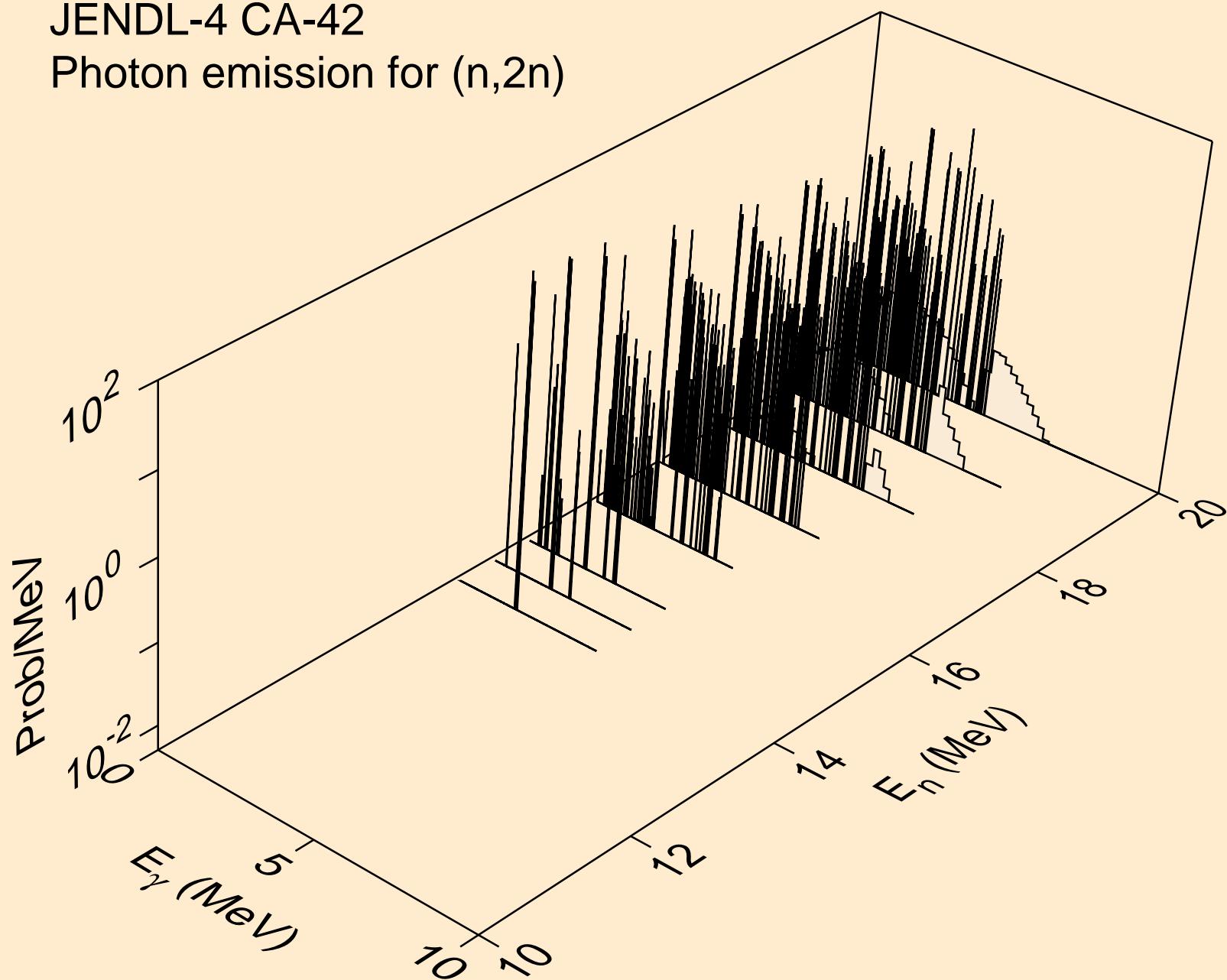
JENDL-4 CA-42  
Neutron emission for  $(n,n^*)p$



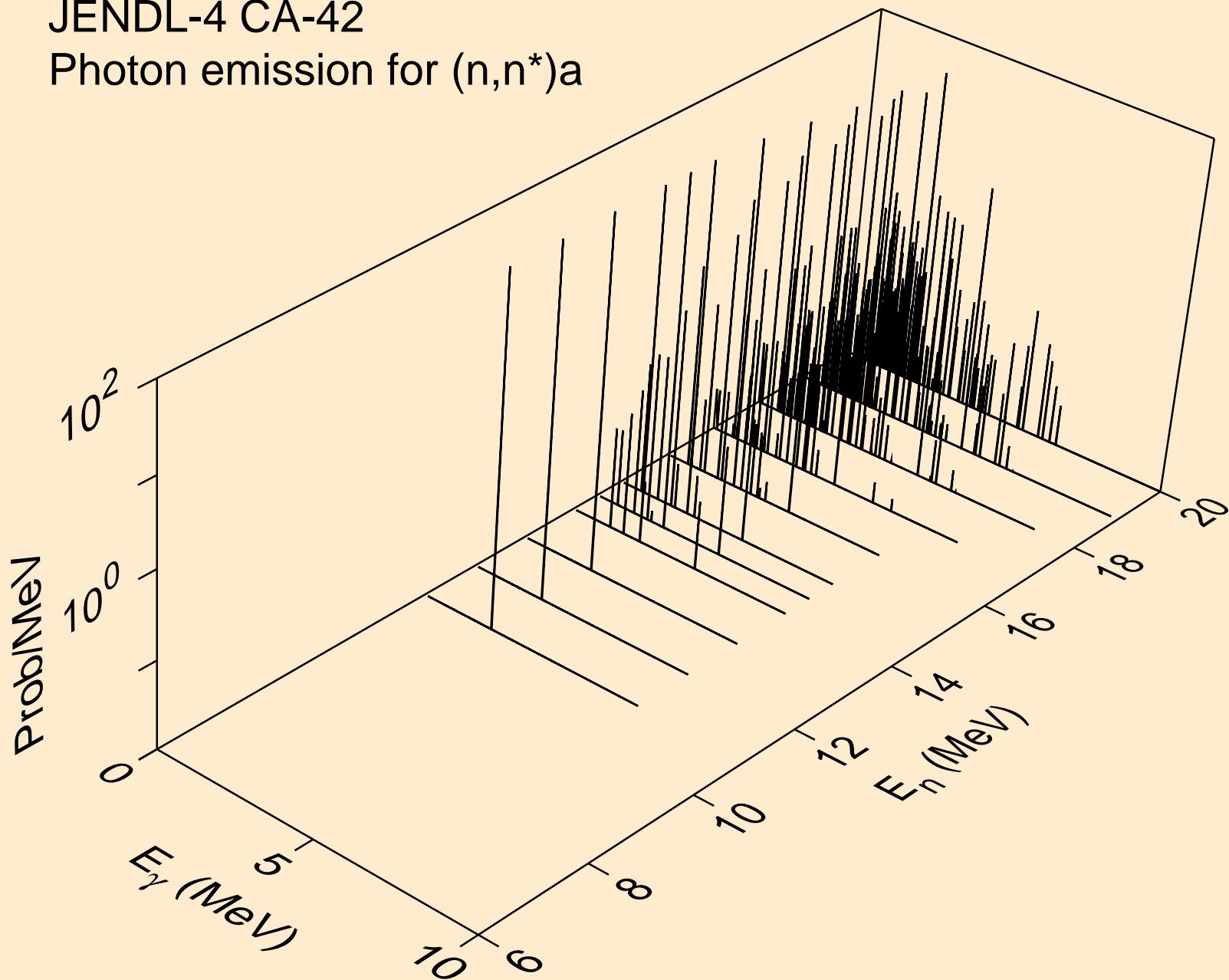
JENDL-4 CA-42  
Neutron emission for  $(n,n^*c)$



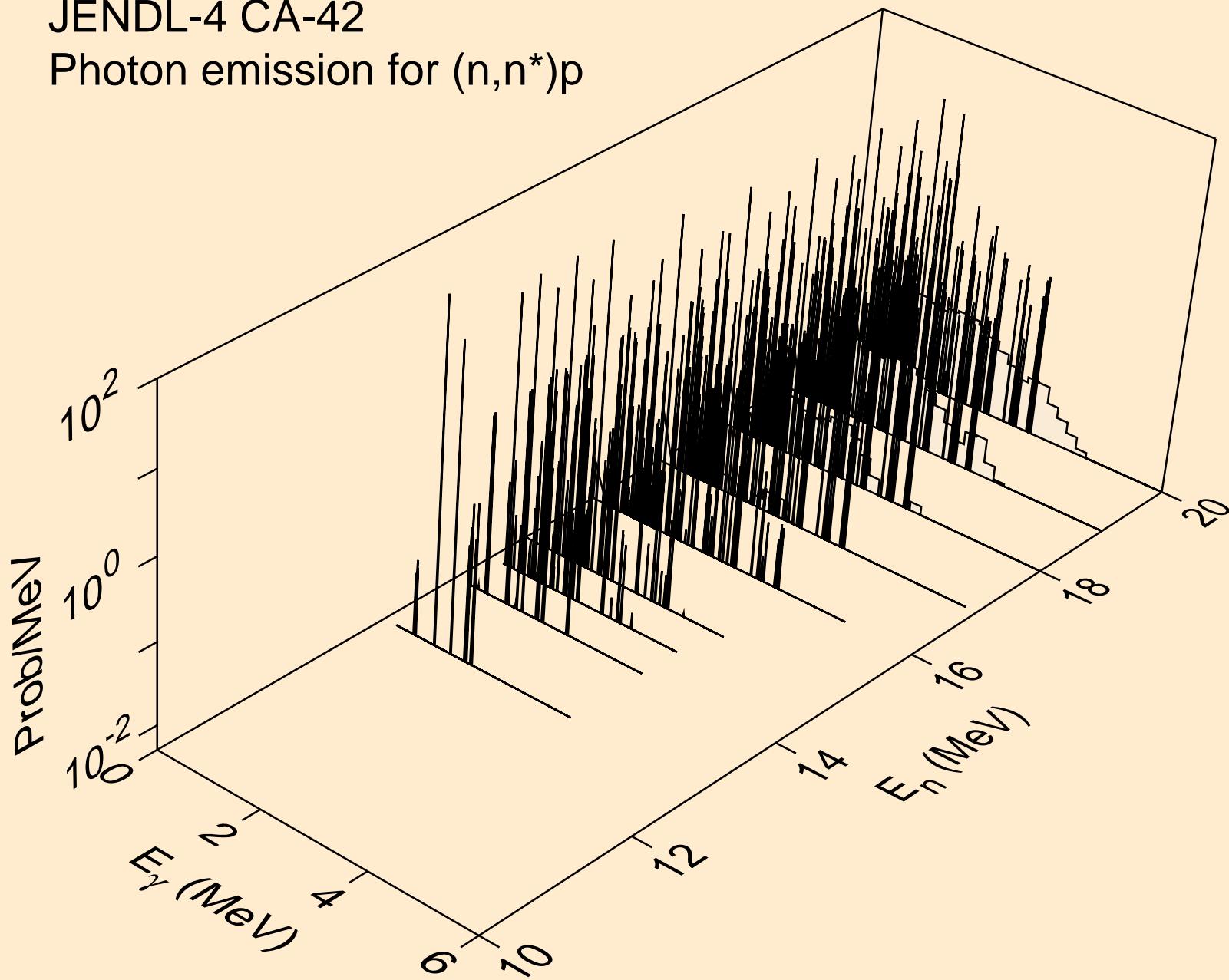
JENDL-4 CA-42  
Photon emission for ( $n,2n$ )



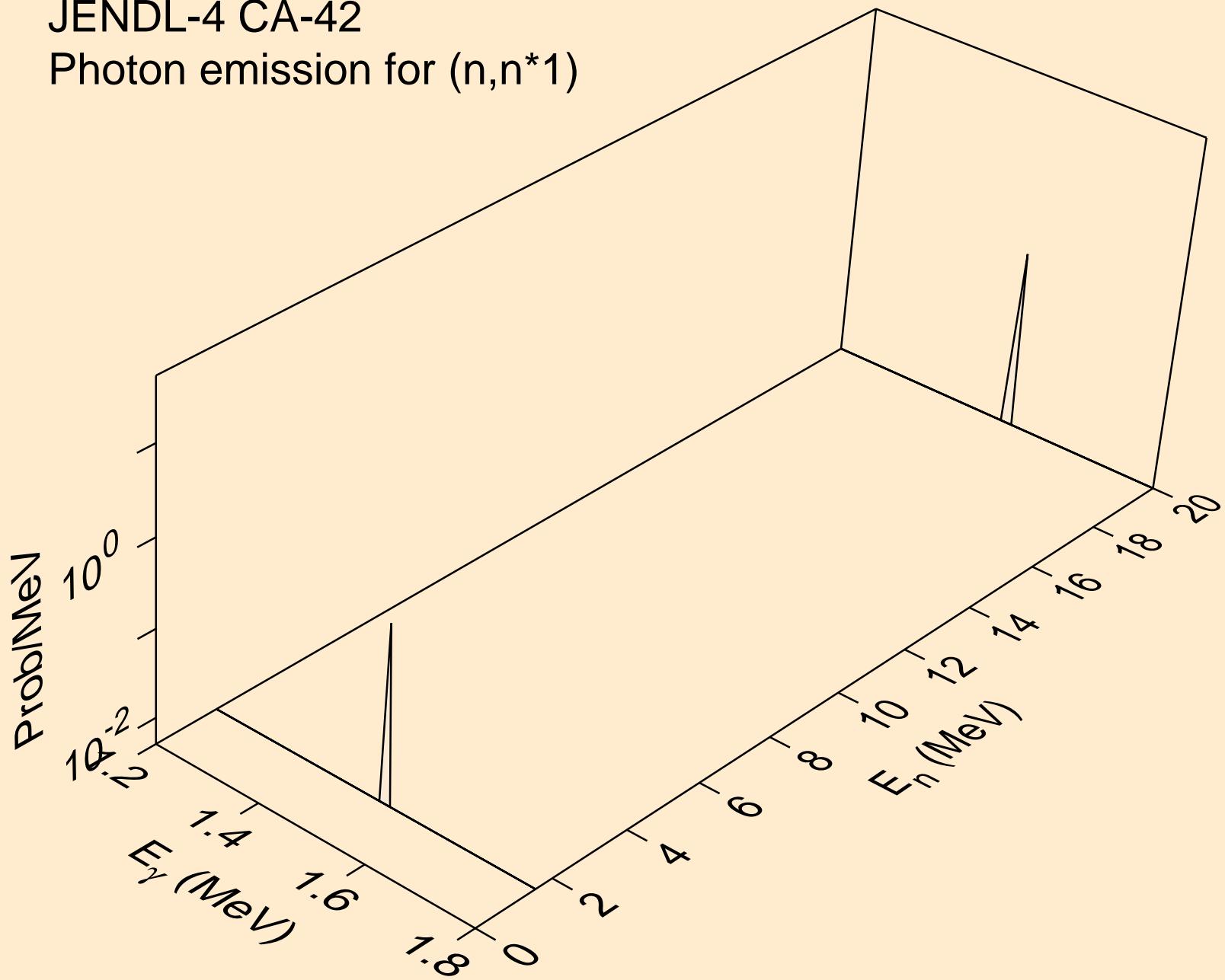
JENDL-4 CA-42  
Photon emission for  $(n,n^*)a$



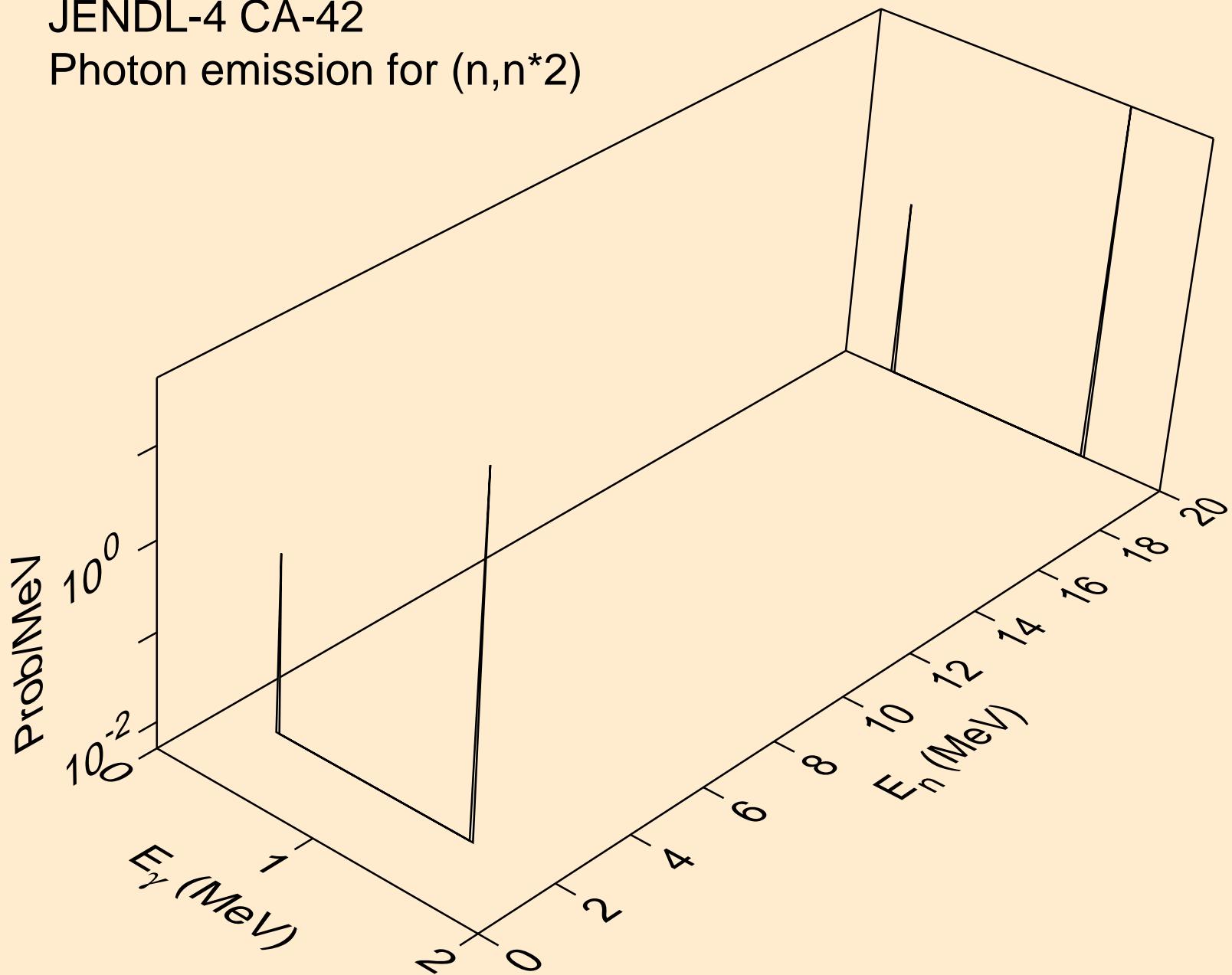
JENDL-4 CA-42  
Photon emission for  $(n,n^*)p$



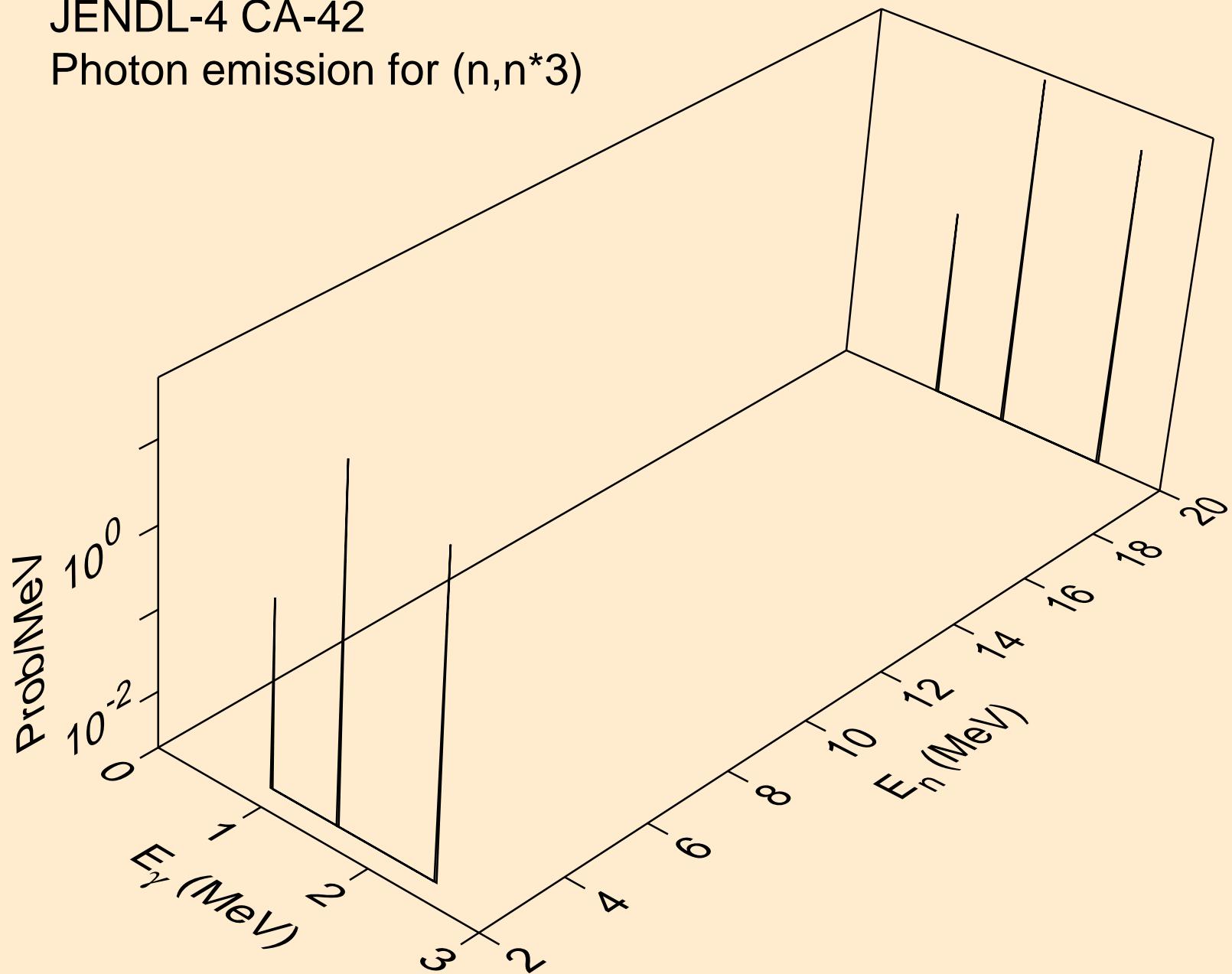
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Photon emission for (n,n\*1)



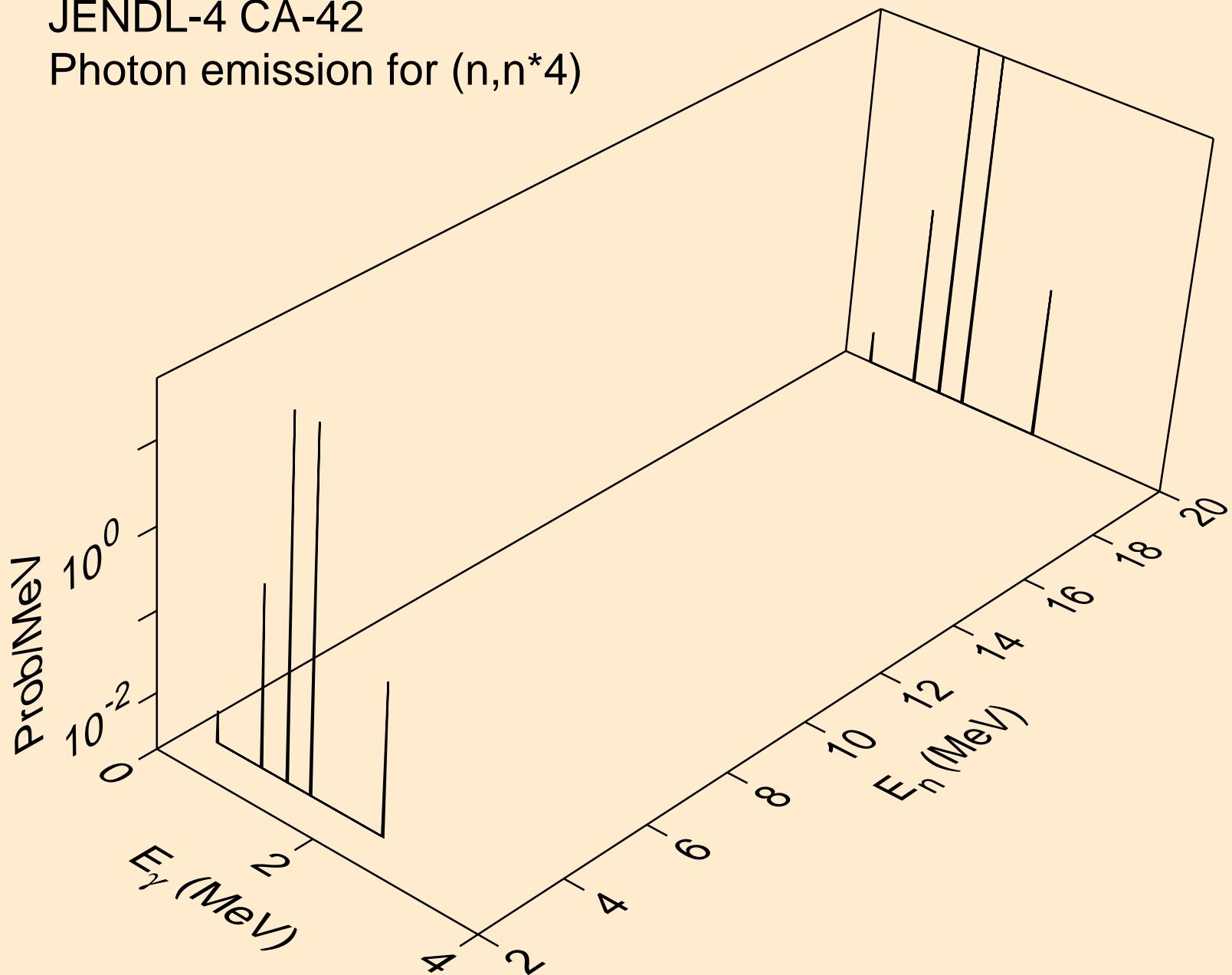
JENDL-4 CA-42  
Photon emission for  $(n,n^*)$



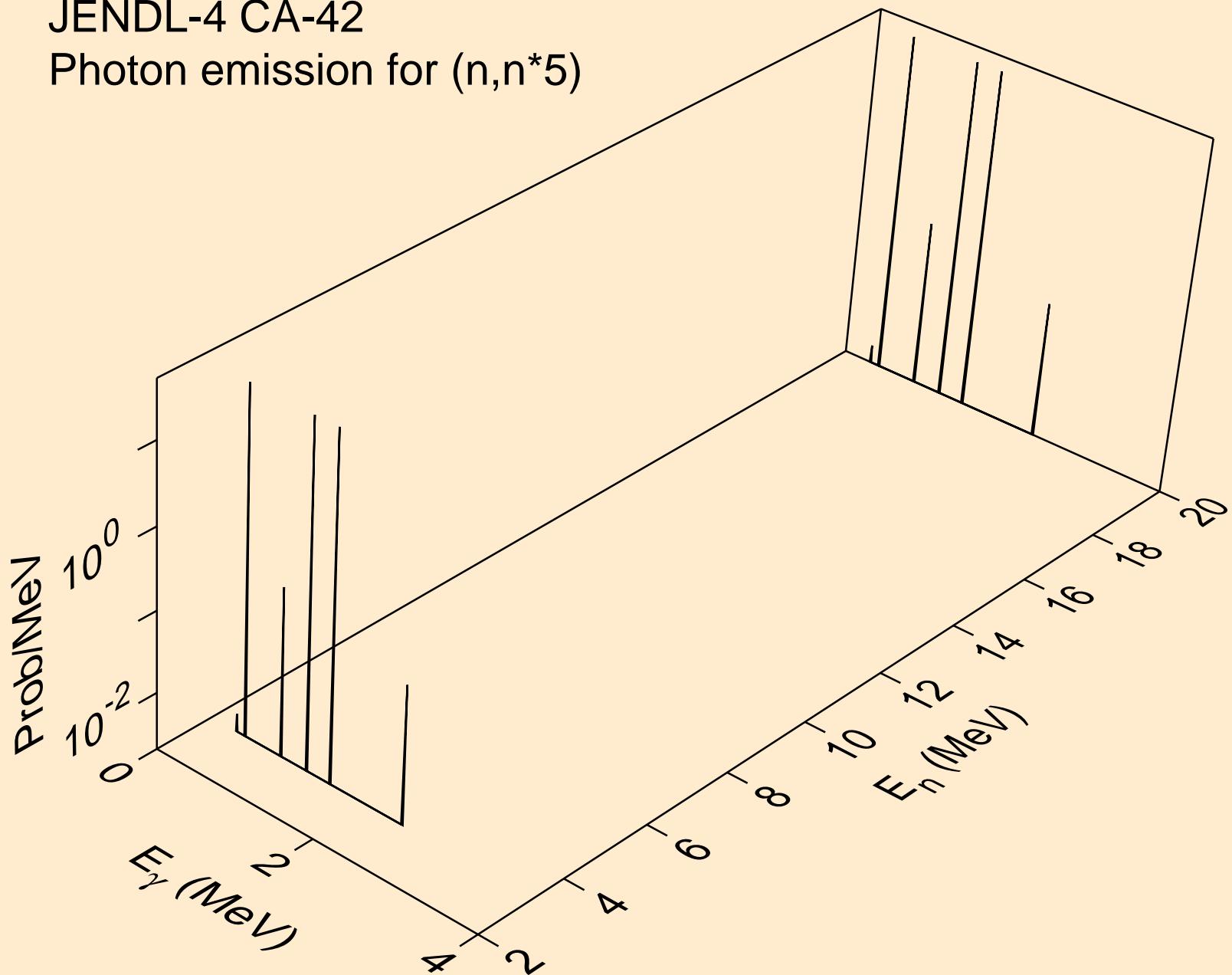
JENDL-4 CA-42  
Photon emission for (n,n\*3)



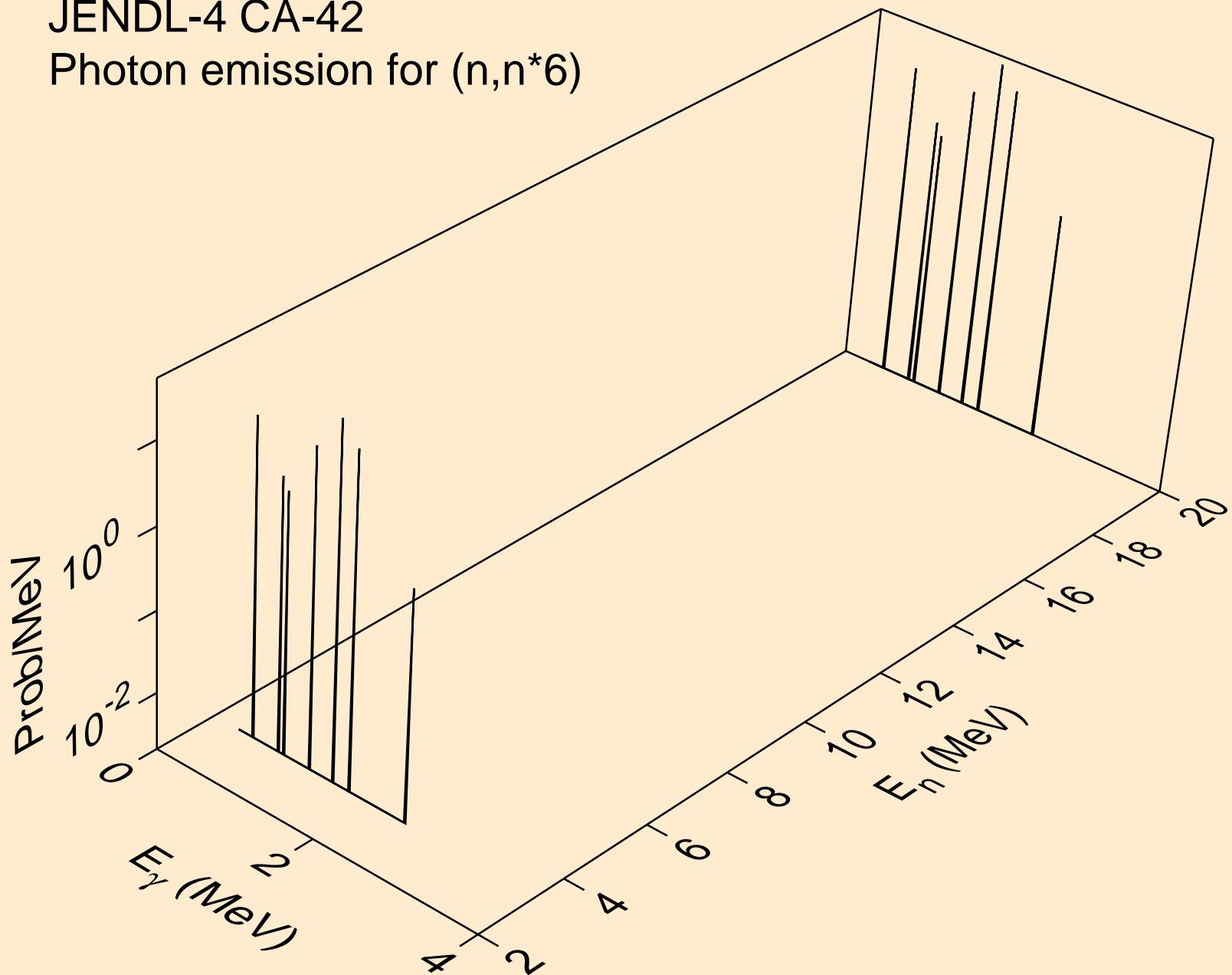
JENDL-4 CA-42  
Photon emission for  $(n,n^*4)$



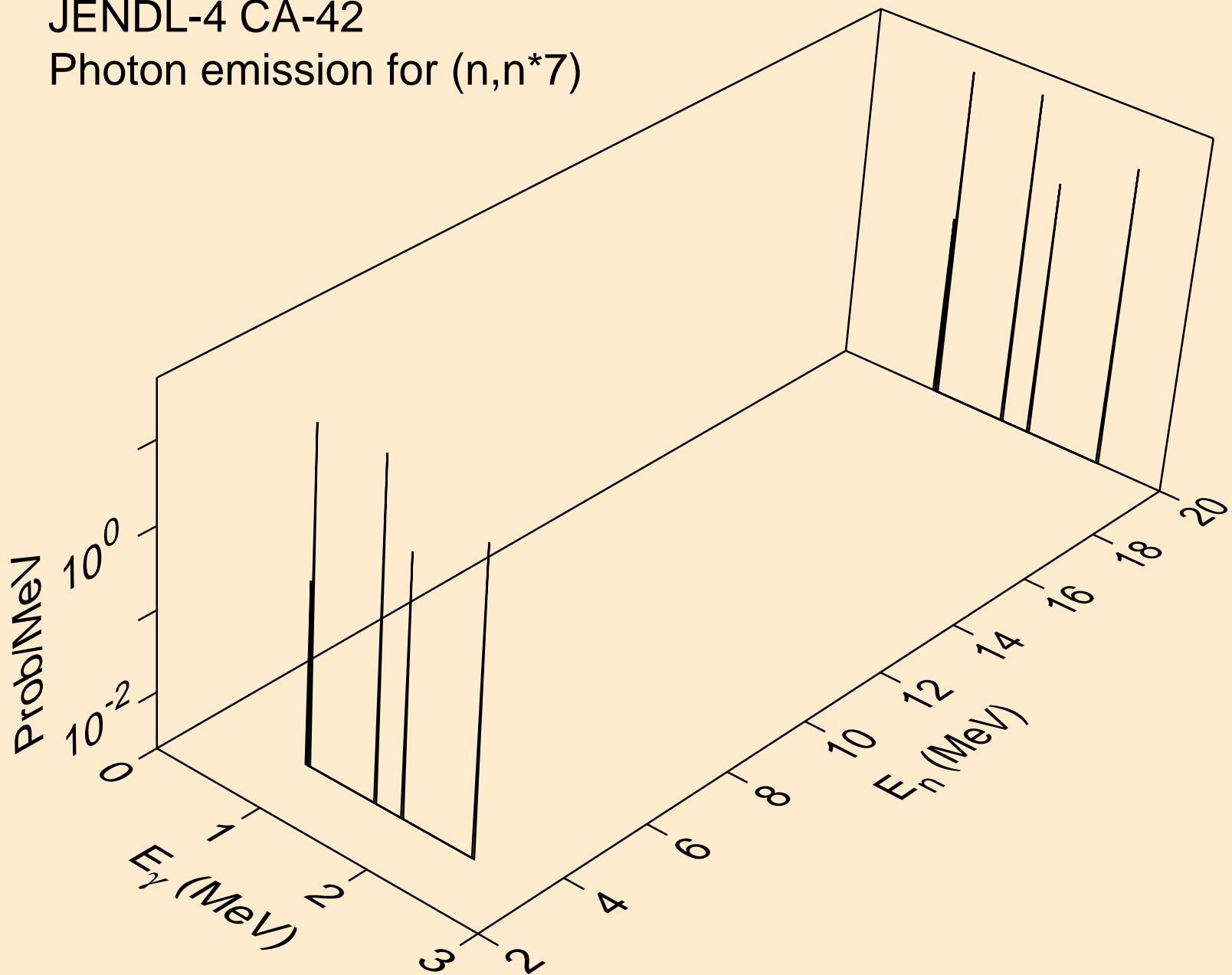
JENDL-4 CA-42  
Photon emission for (n,n\*5)



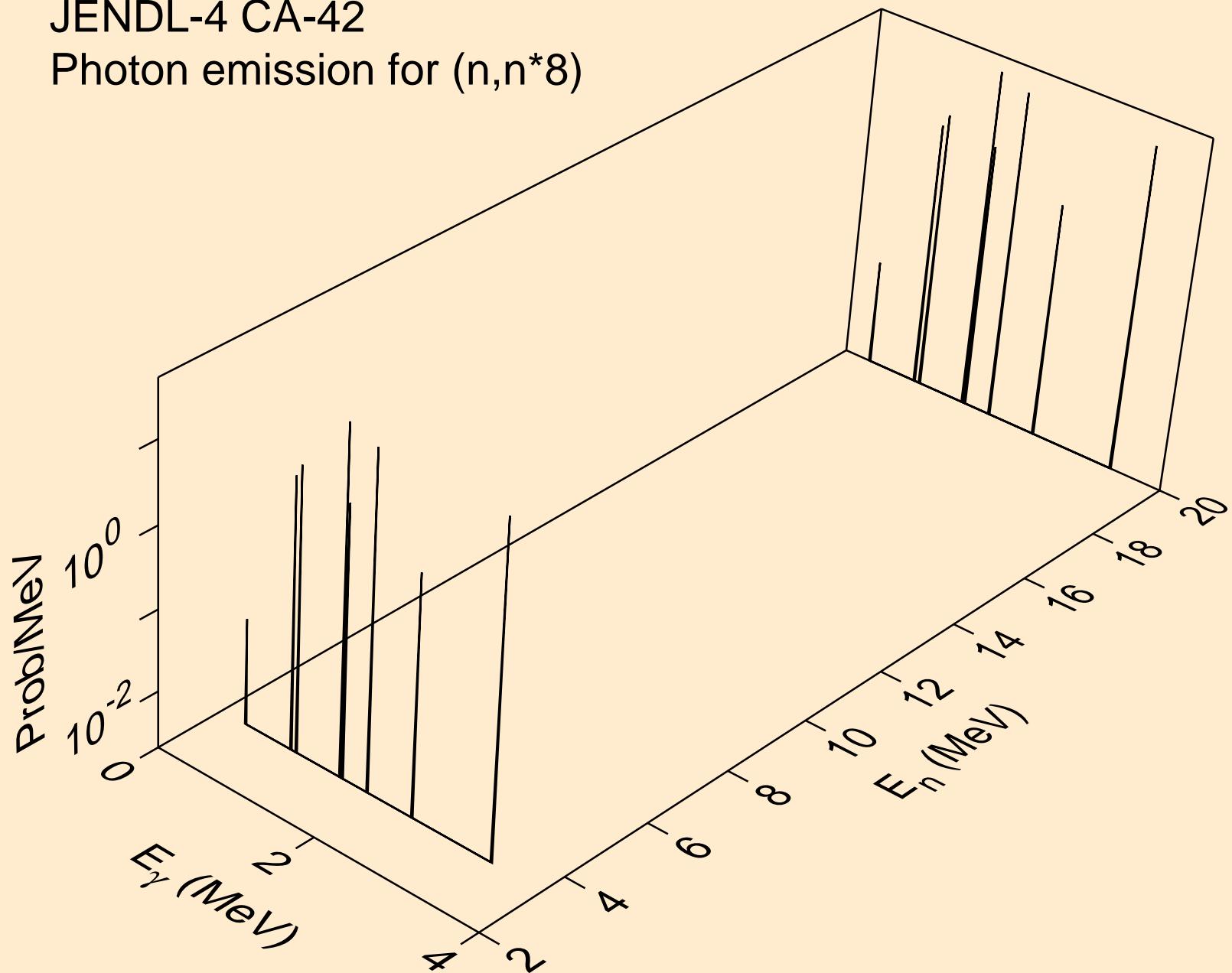
JENDL-4 CA-42  
Photon emission for  $(n,n^*)$



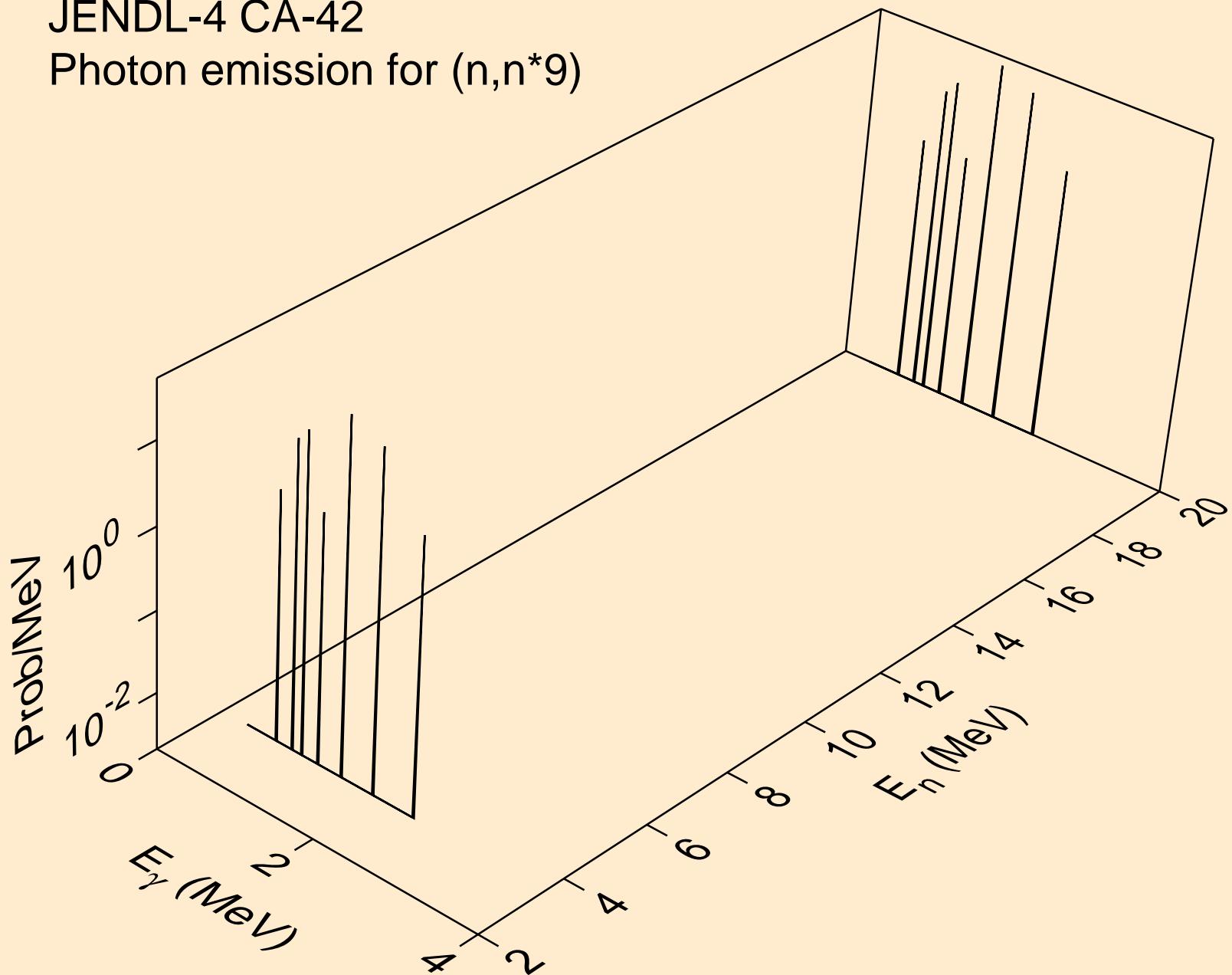
JENDL-4 CA-42  
Photon emission for  $(n,n^*)^7$



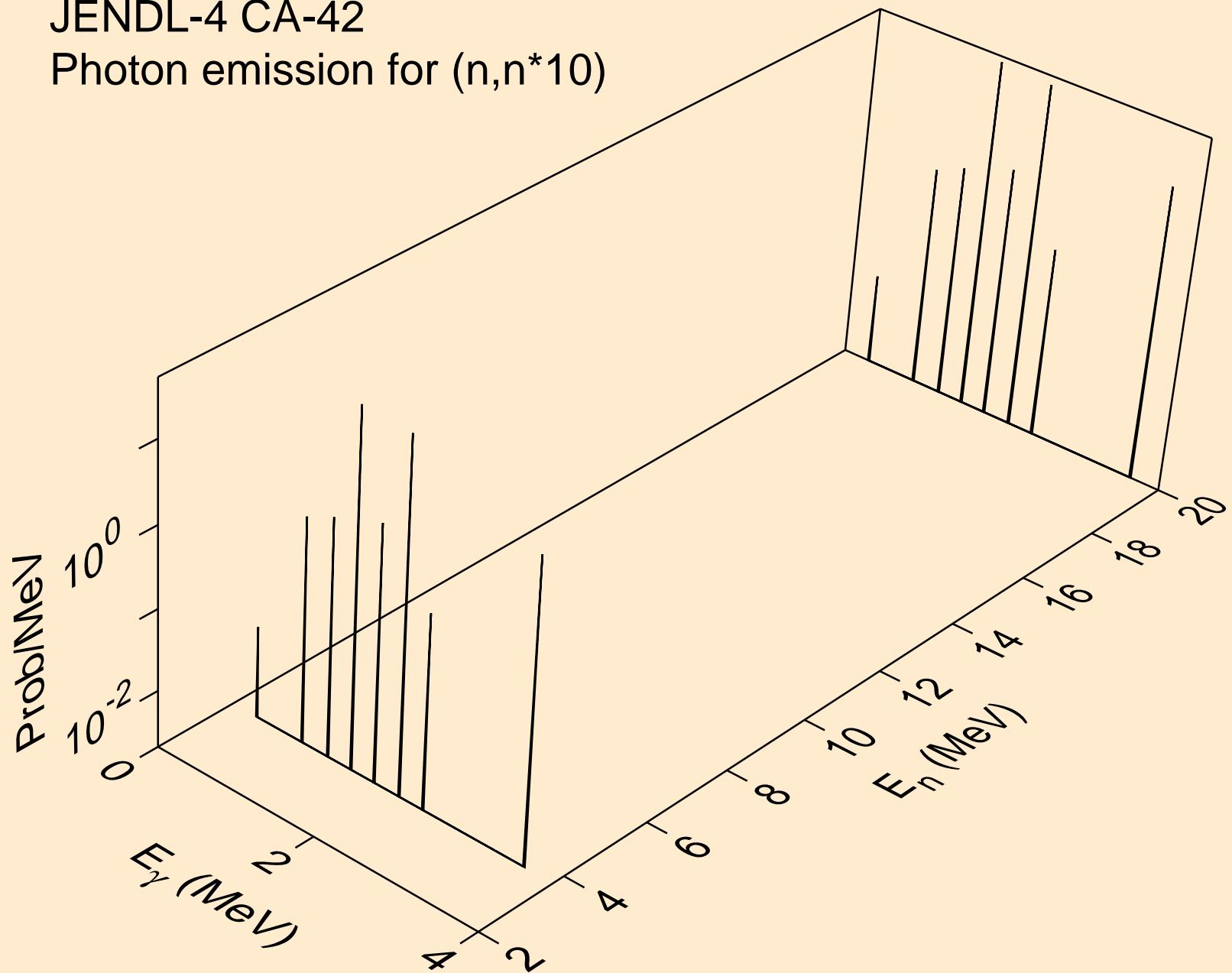
JENDL-4 CA-42  
Photon emission for (n,n\*8)



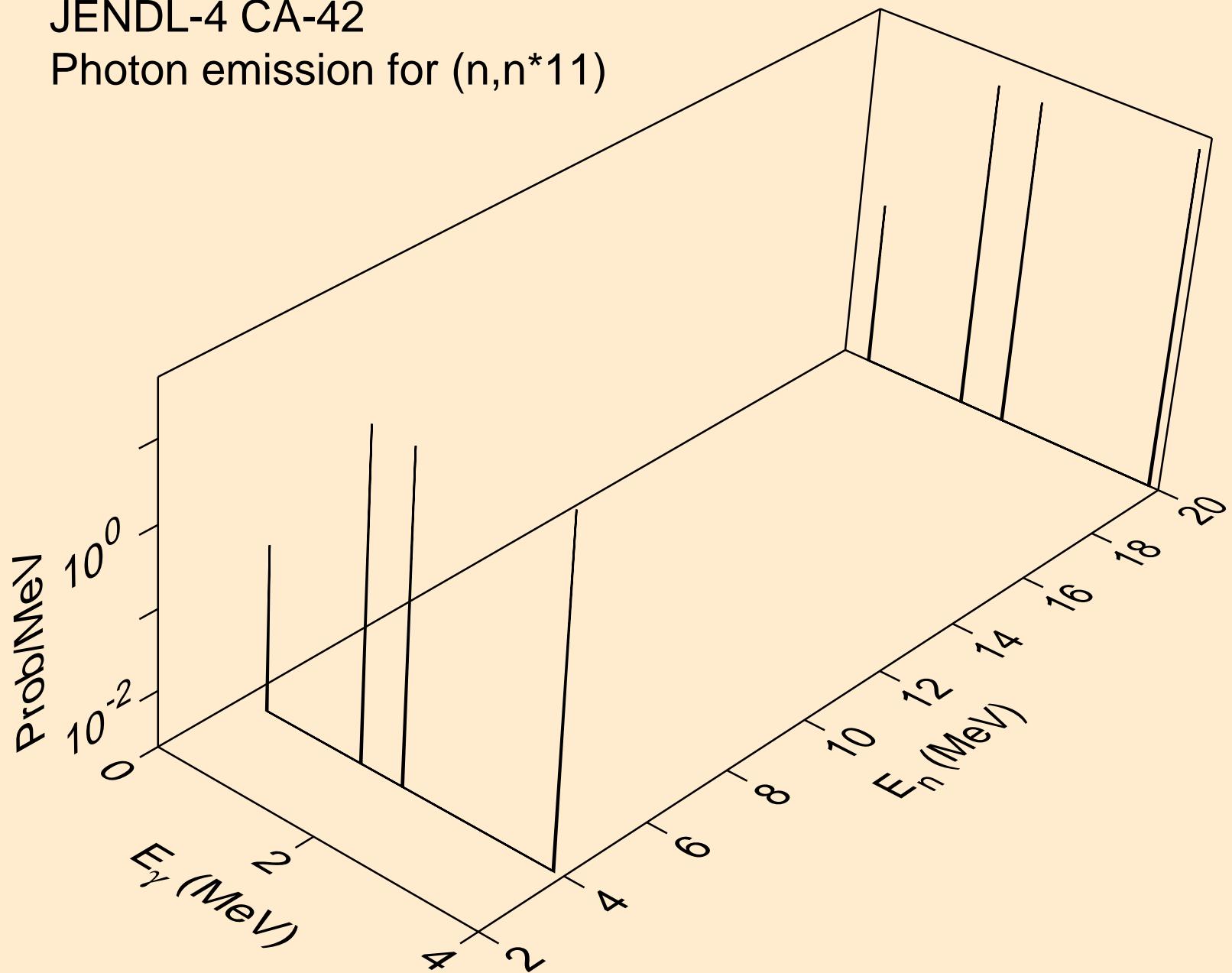
JENDL-4 CA-42  
Photon emission for (n,n\*9)



JENDL-4 CA-42  
Photon emission for (n,n\*10)

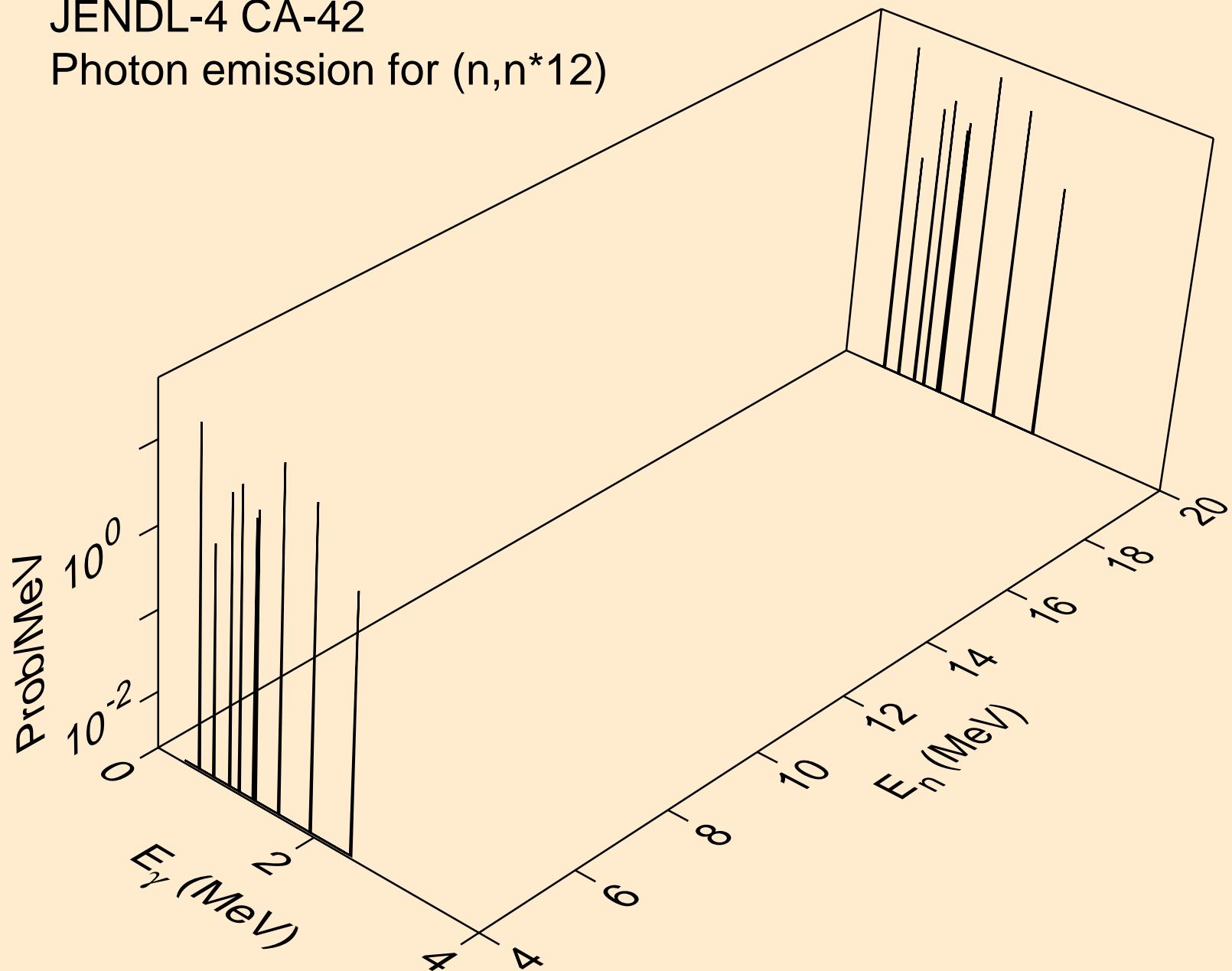


JENDL-4 CA-42  
Photon emission for (n,n\*11)

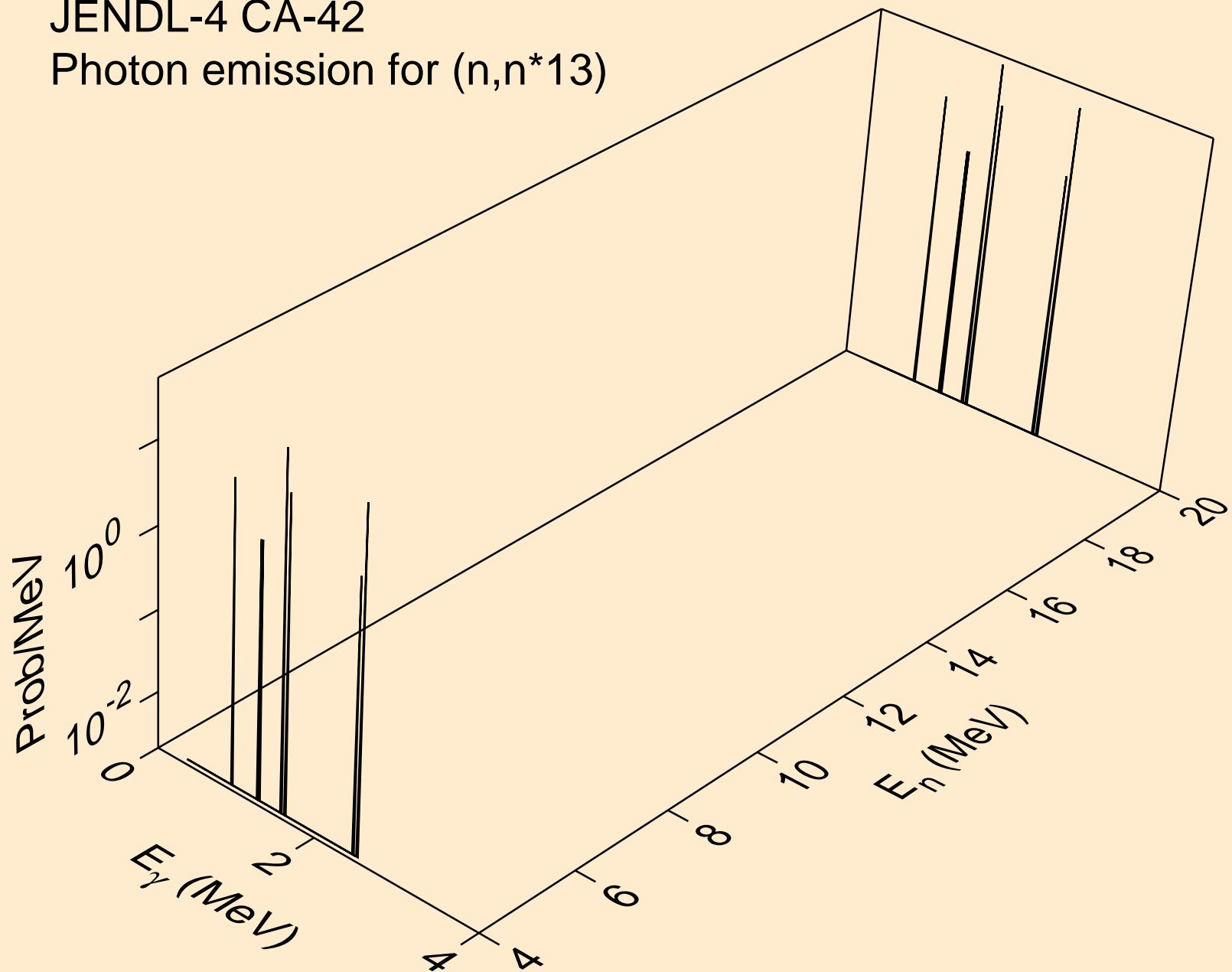


JENDL-4 CA-42

Photon emission for  $(n,n^*12)$

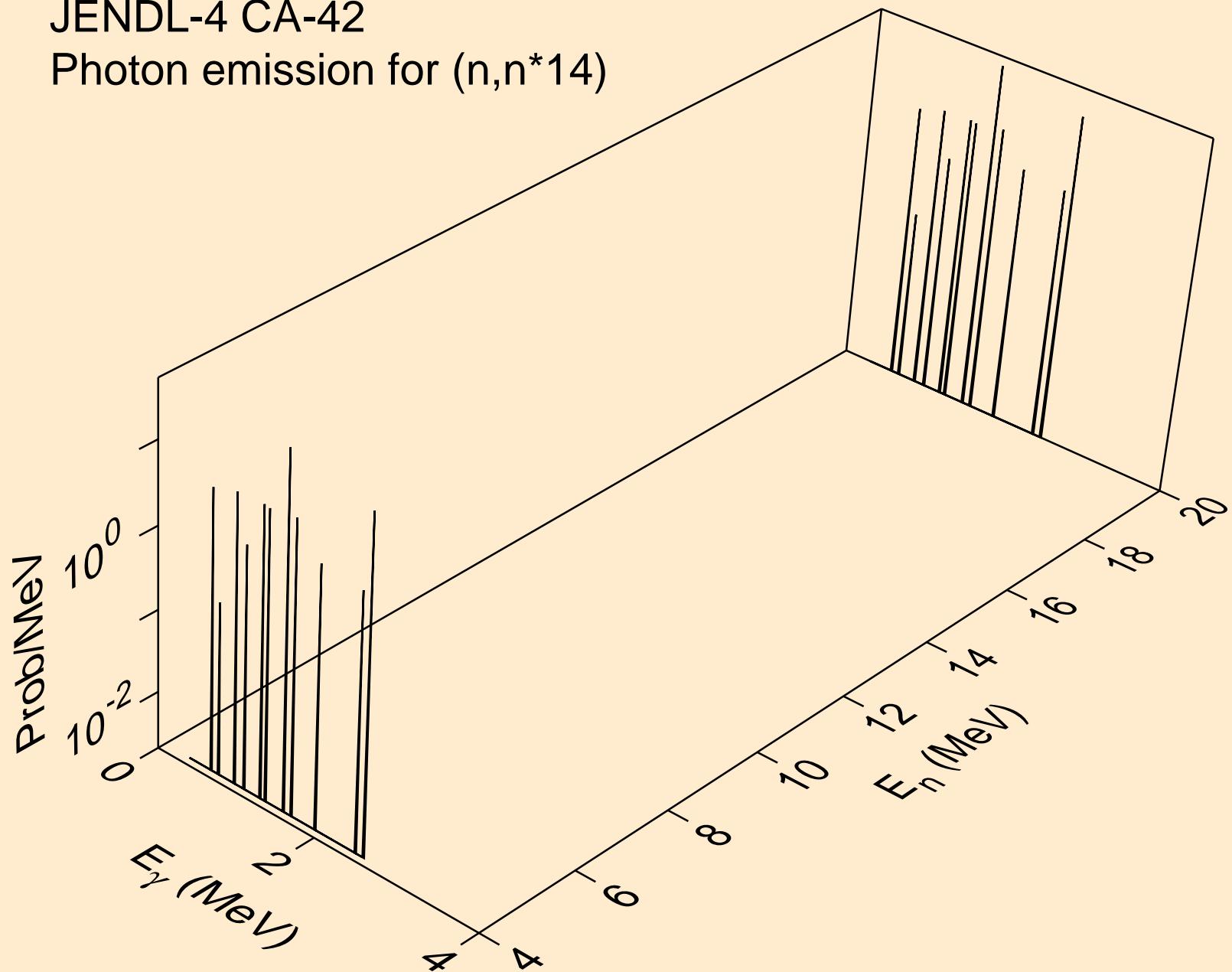


JENDL-4 CA-42  
Photon emission for (n,n\*13)

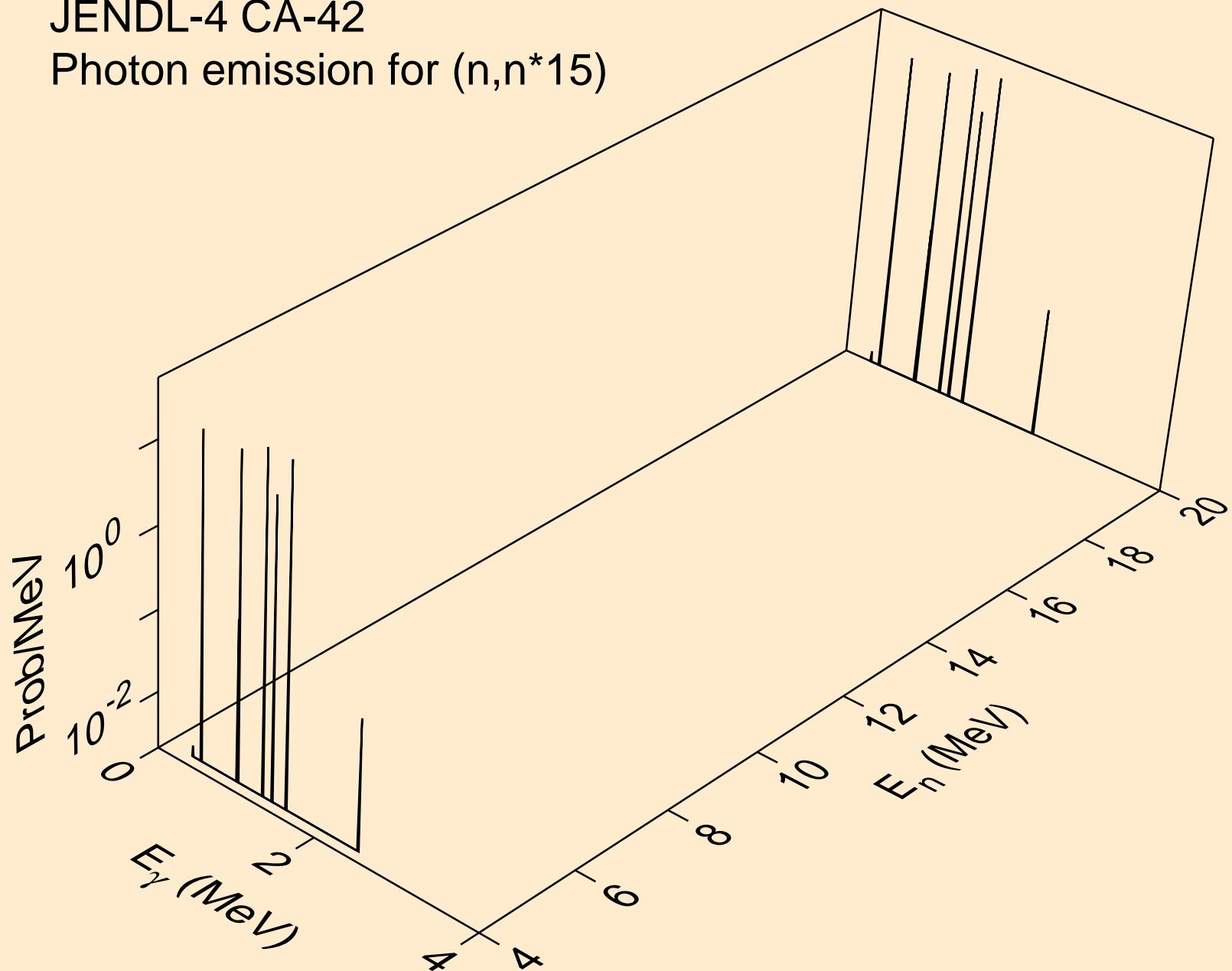


JENDL-4 CA-42

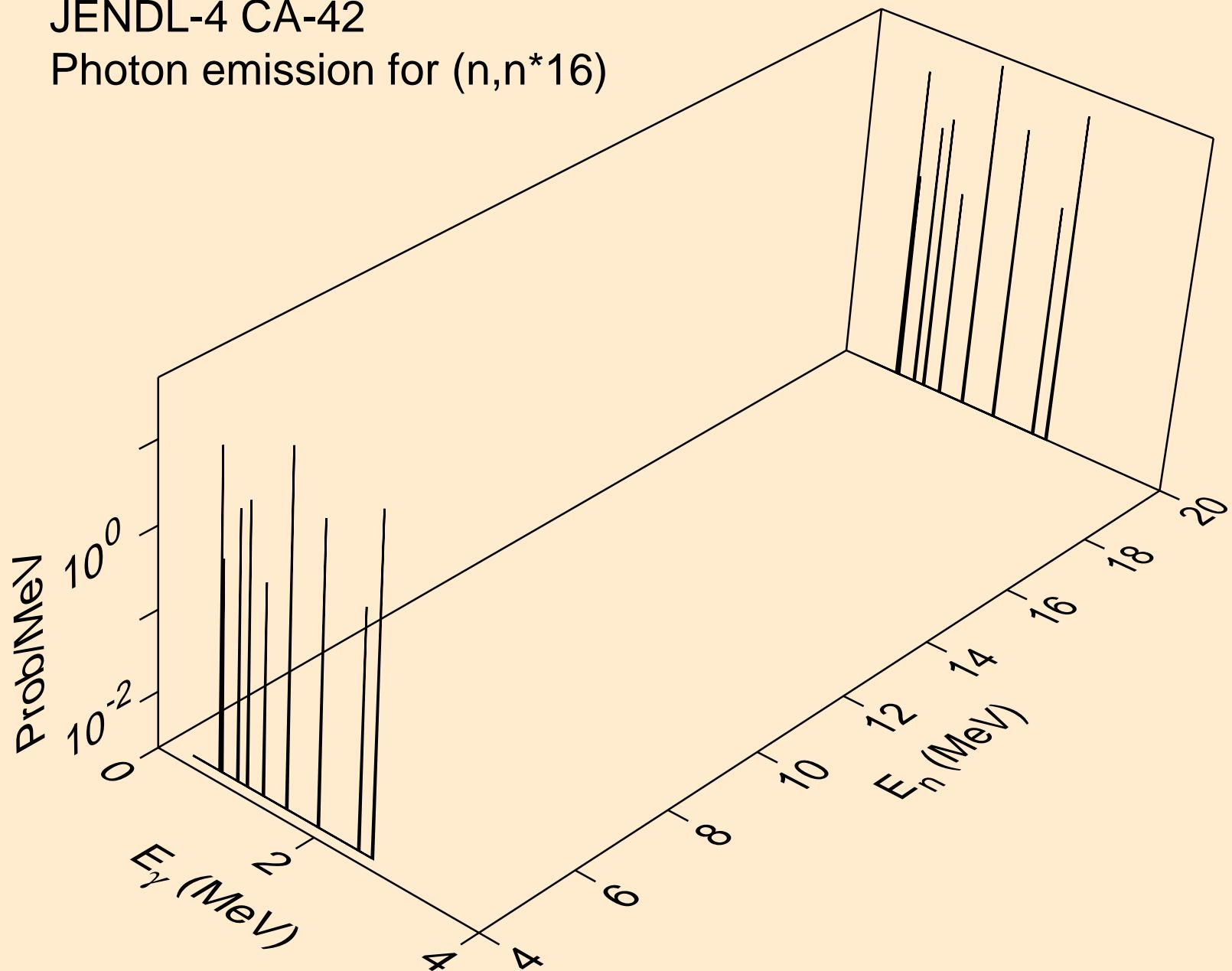
Photon emission for  $(n,n^*14)$



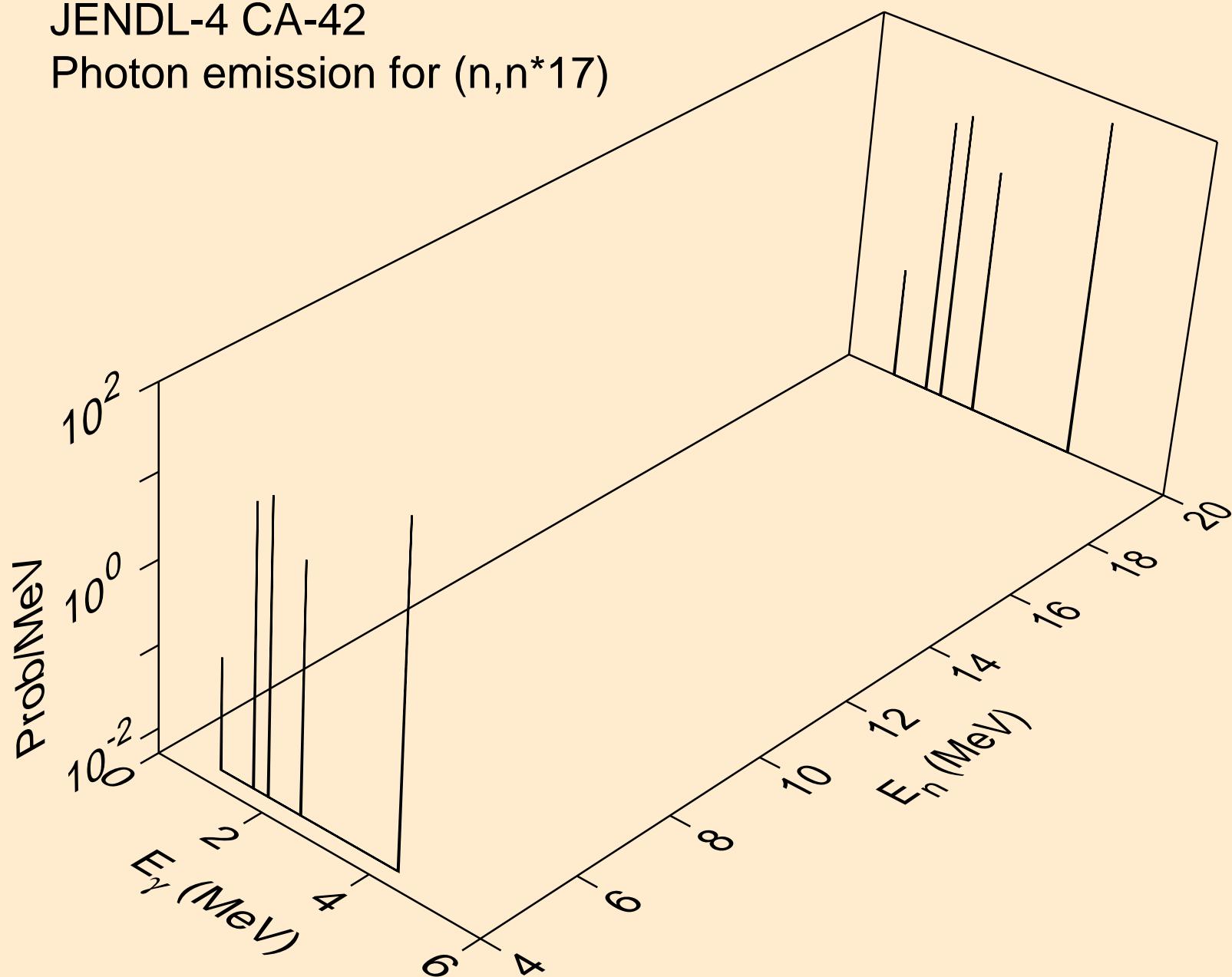
JENDL-4 CA-42  
Photon emission for  $(n,n^*15)$



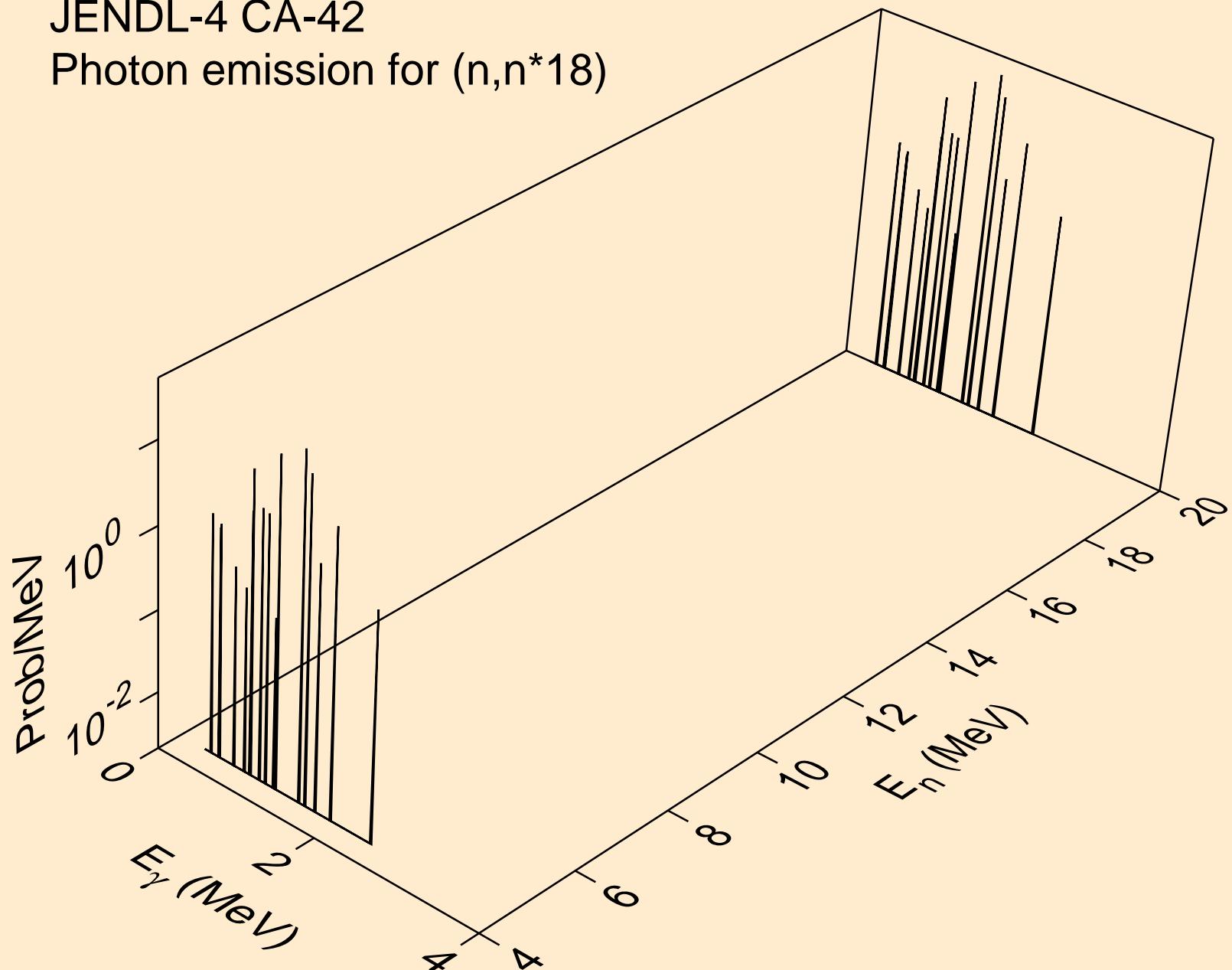
JENDL-4 CA-42  
Photon emission for  $(n,n^*16)$



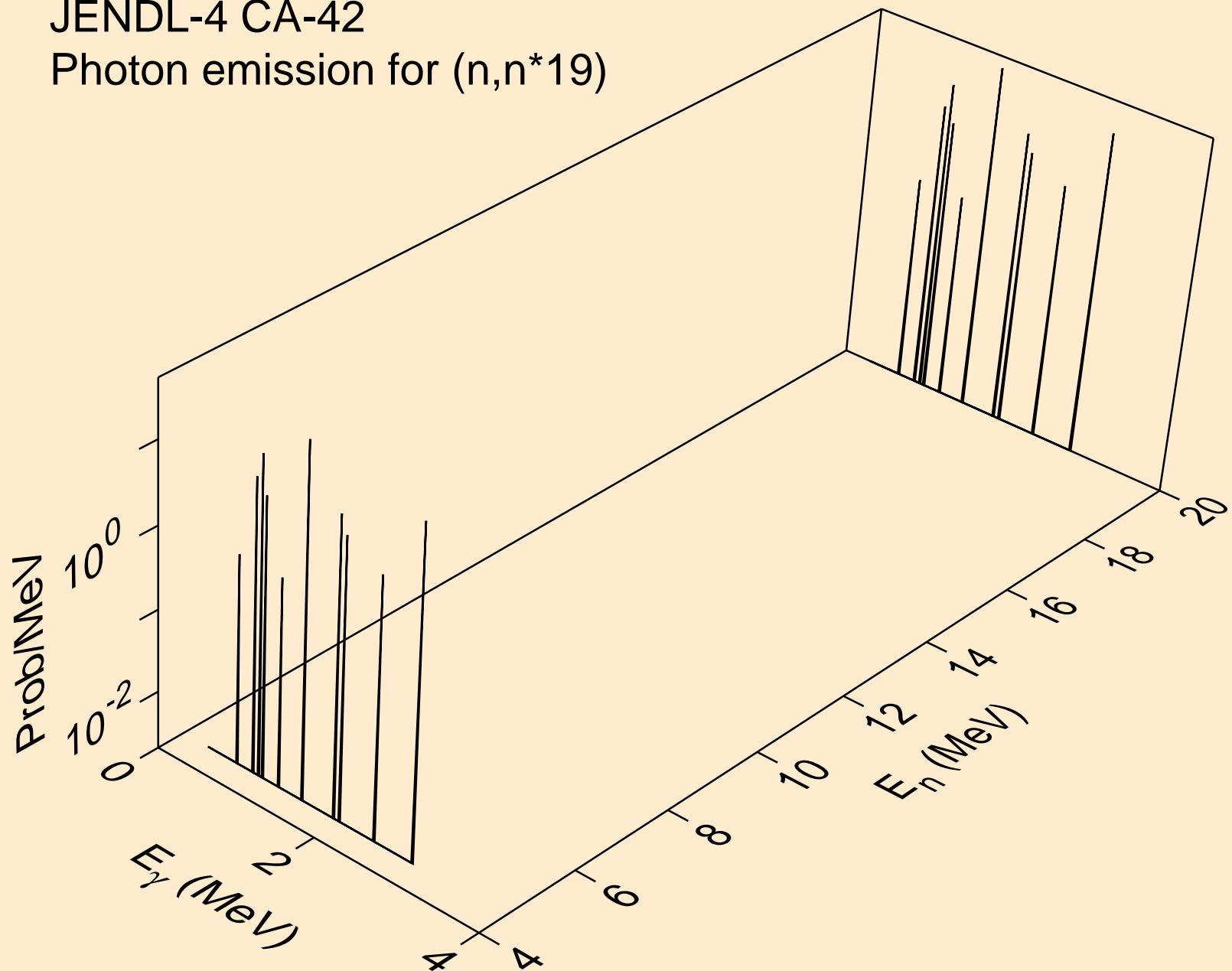
JENDL-4 CA-42  
Photon emission for  $(n,n^*17)$



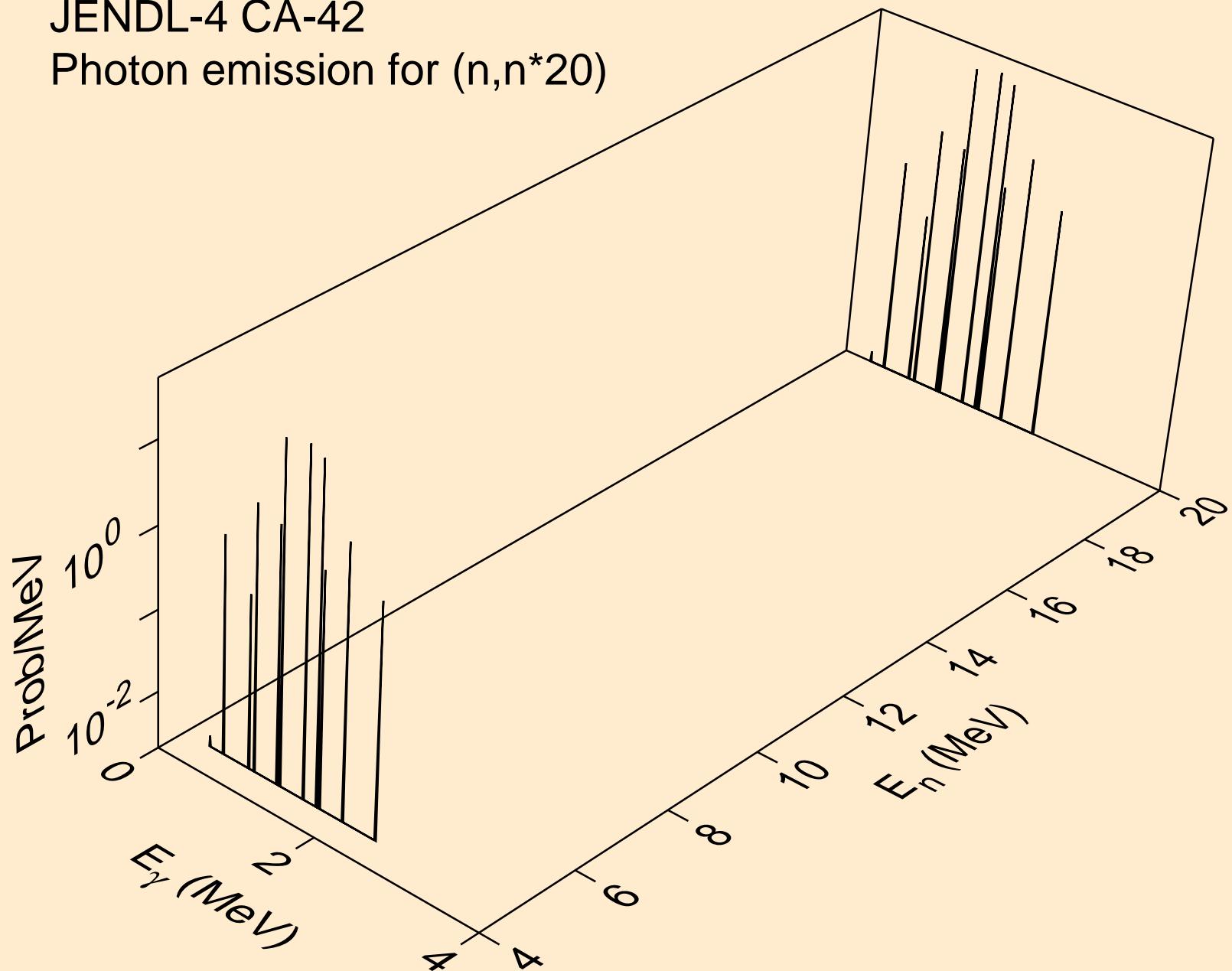
JENDL-4 CA-42  
Photon emission for  $(n,n^*18)$



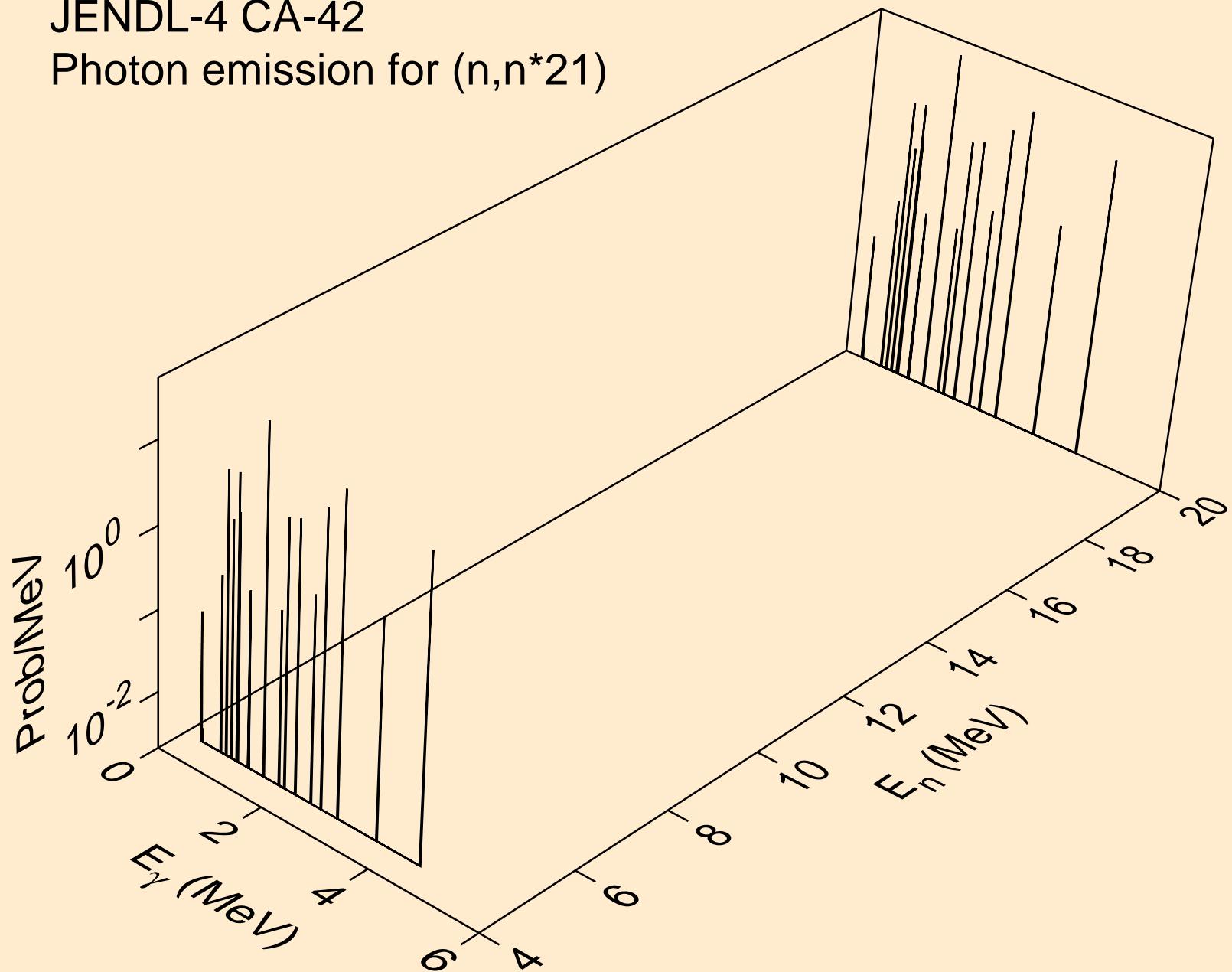
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Photon emission for  $(n,n^*19)$



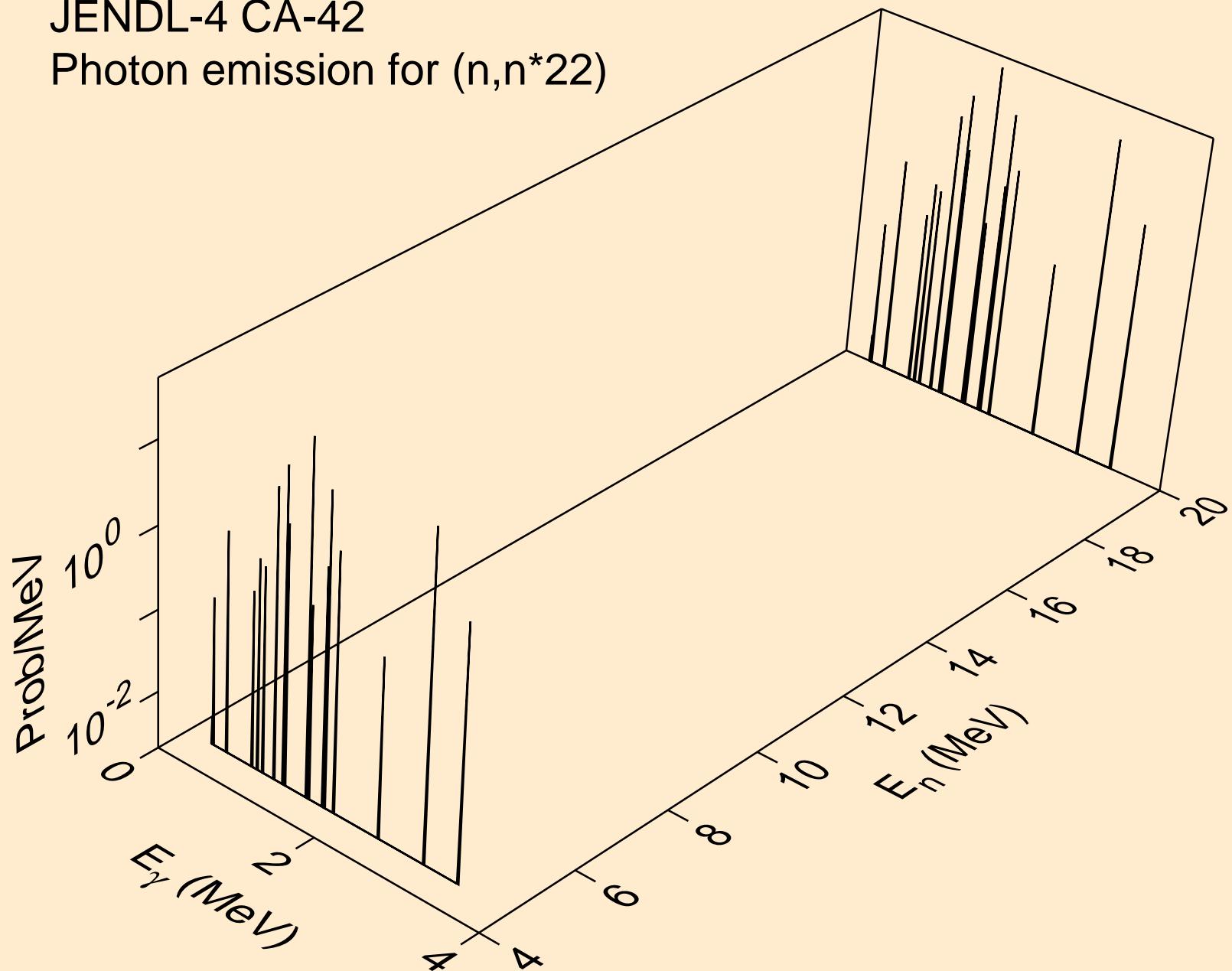
JENDL-4 CA-42  
Photon emission for (n,n\*20)



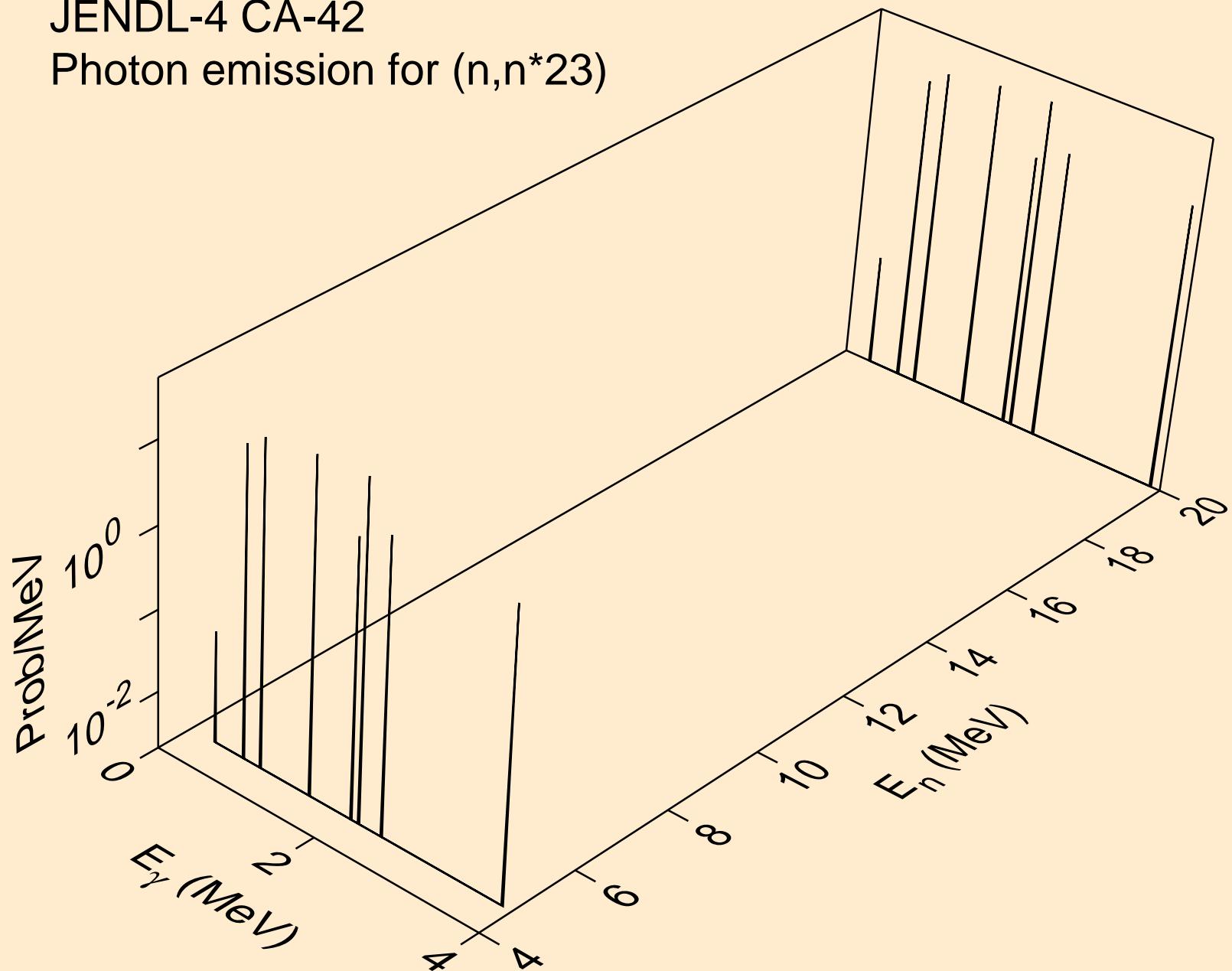
JENDL-4 CA-42  
Photon emission for (n,n\*21)



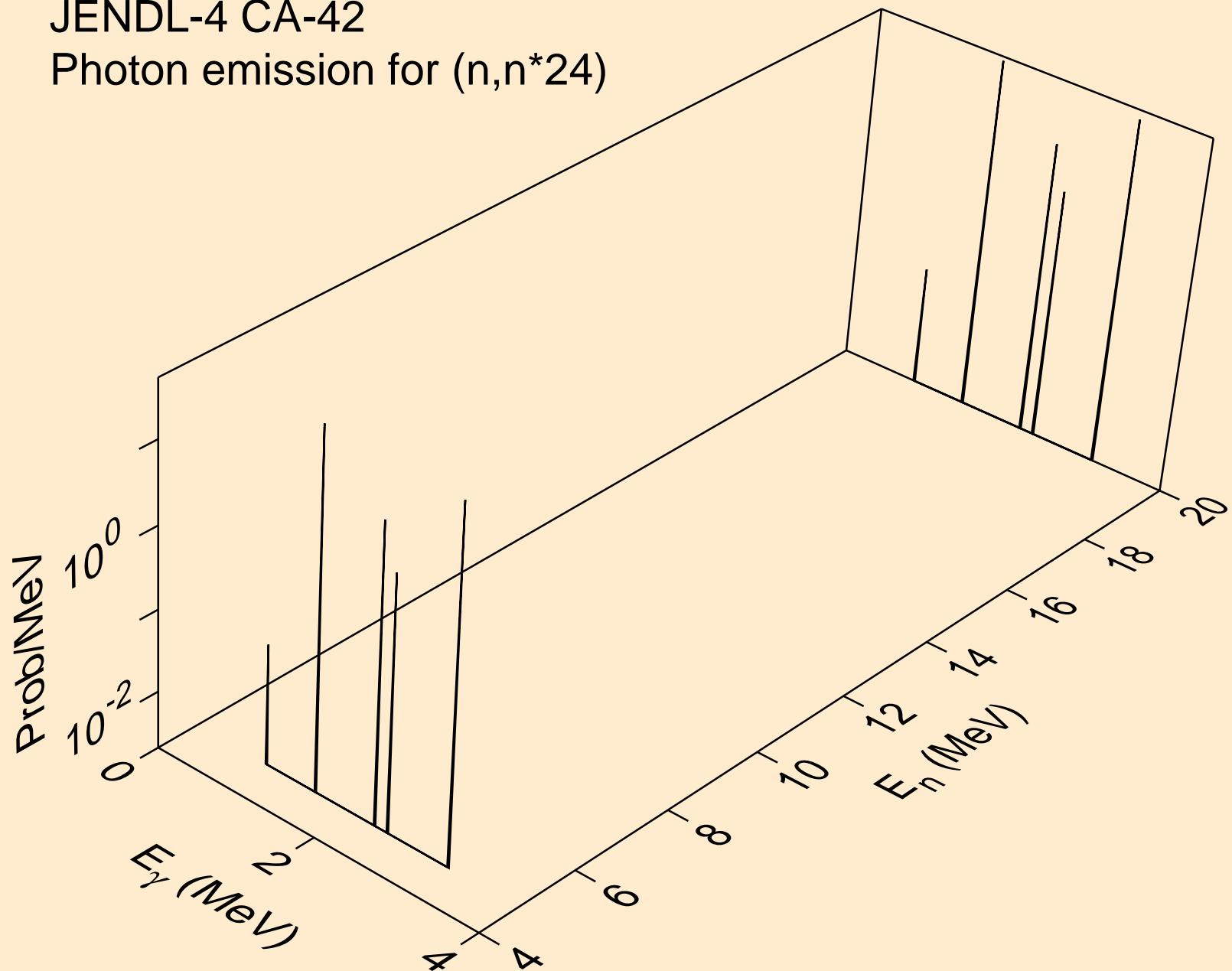
JENDL-4 CA-42  
Photon emission for  $(n,n^*22)$



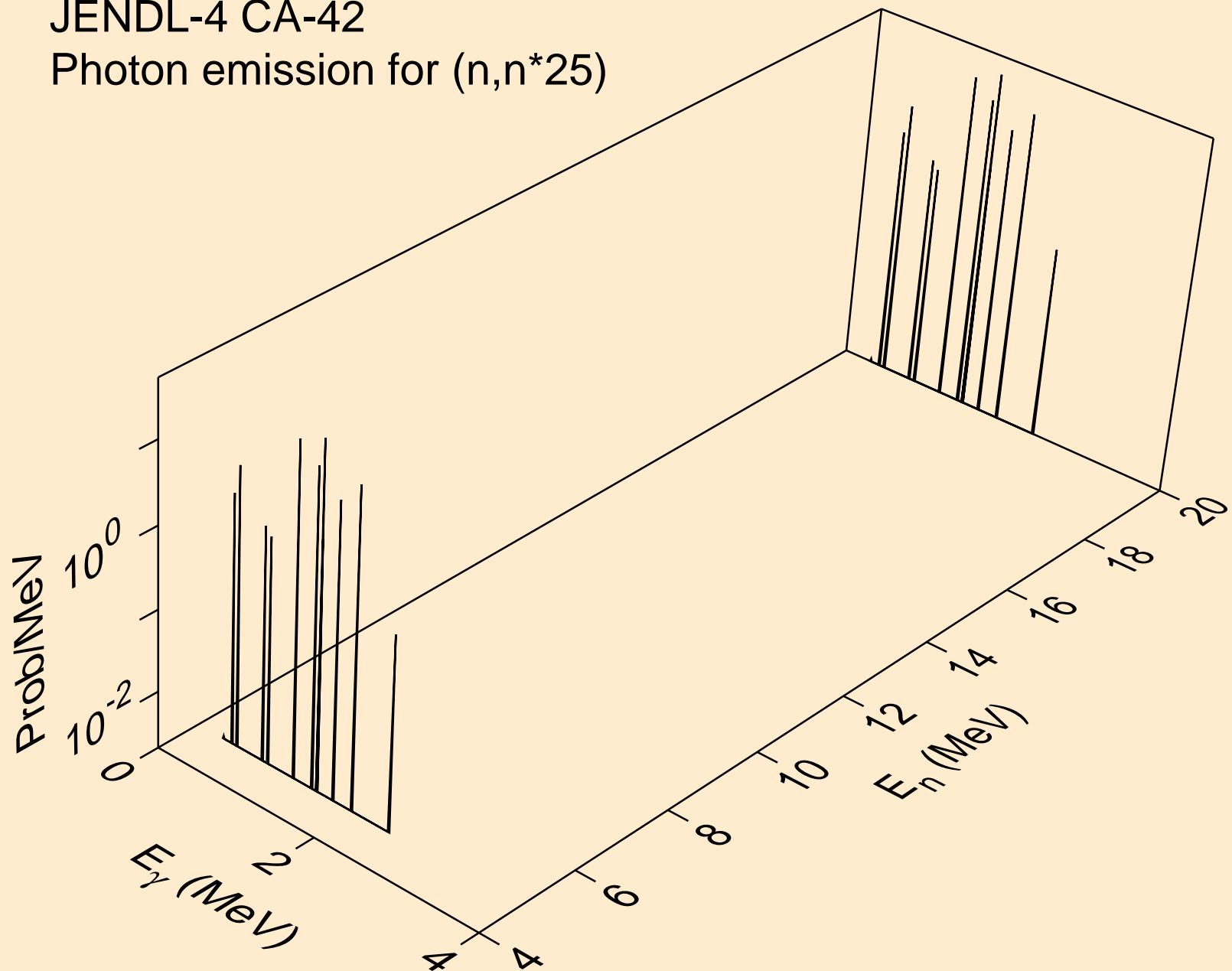
JENDL-4 CA-42  
Photon emission for ( $n, n^* 23$ )



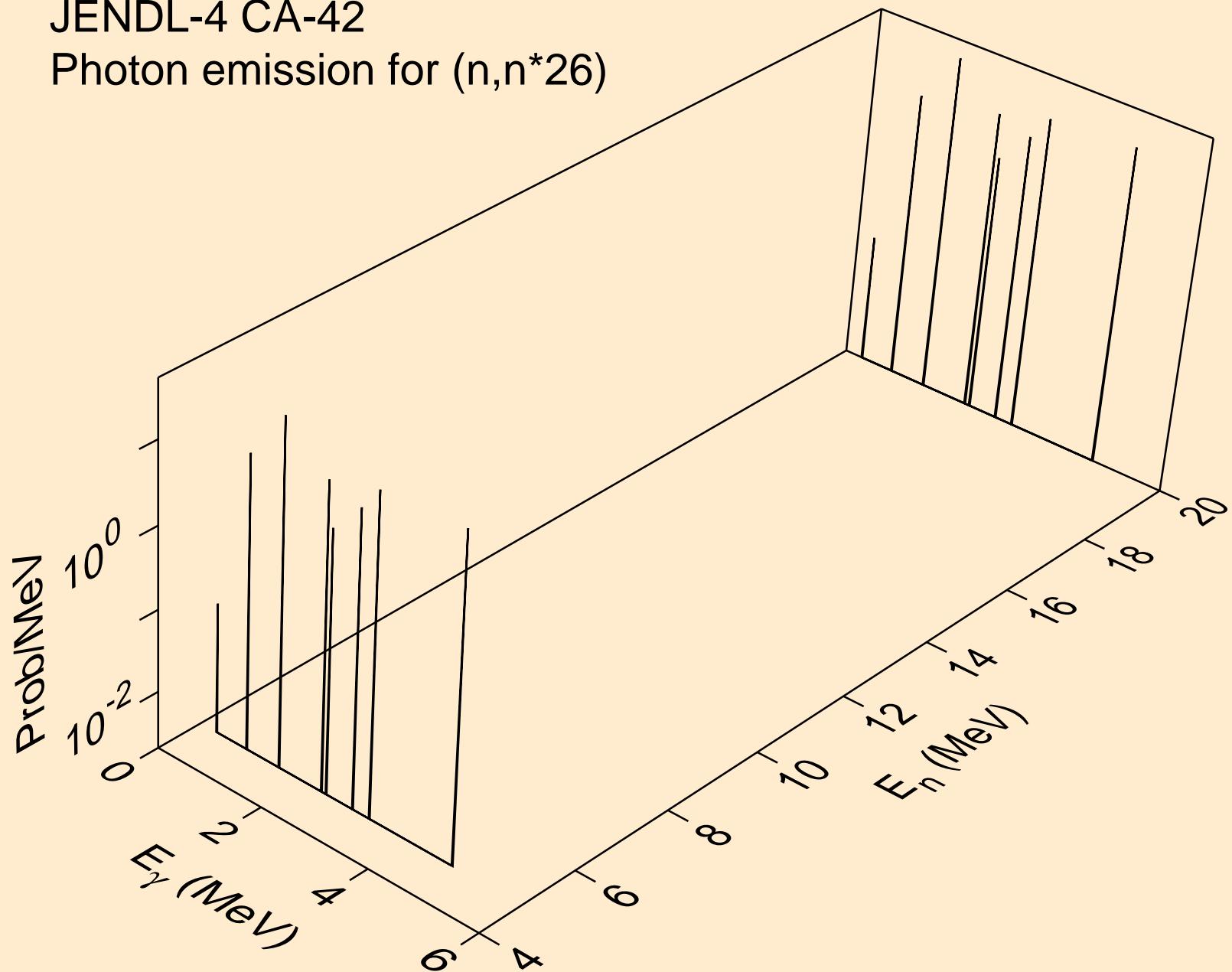
JENDL-4 CA-42  
Photon emission for ( $n, n^* 24$ )



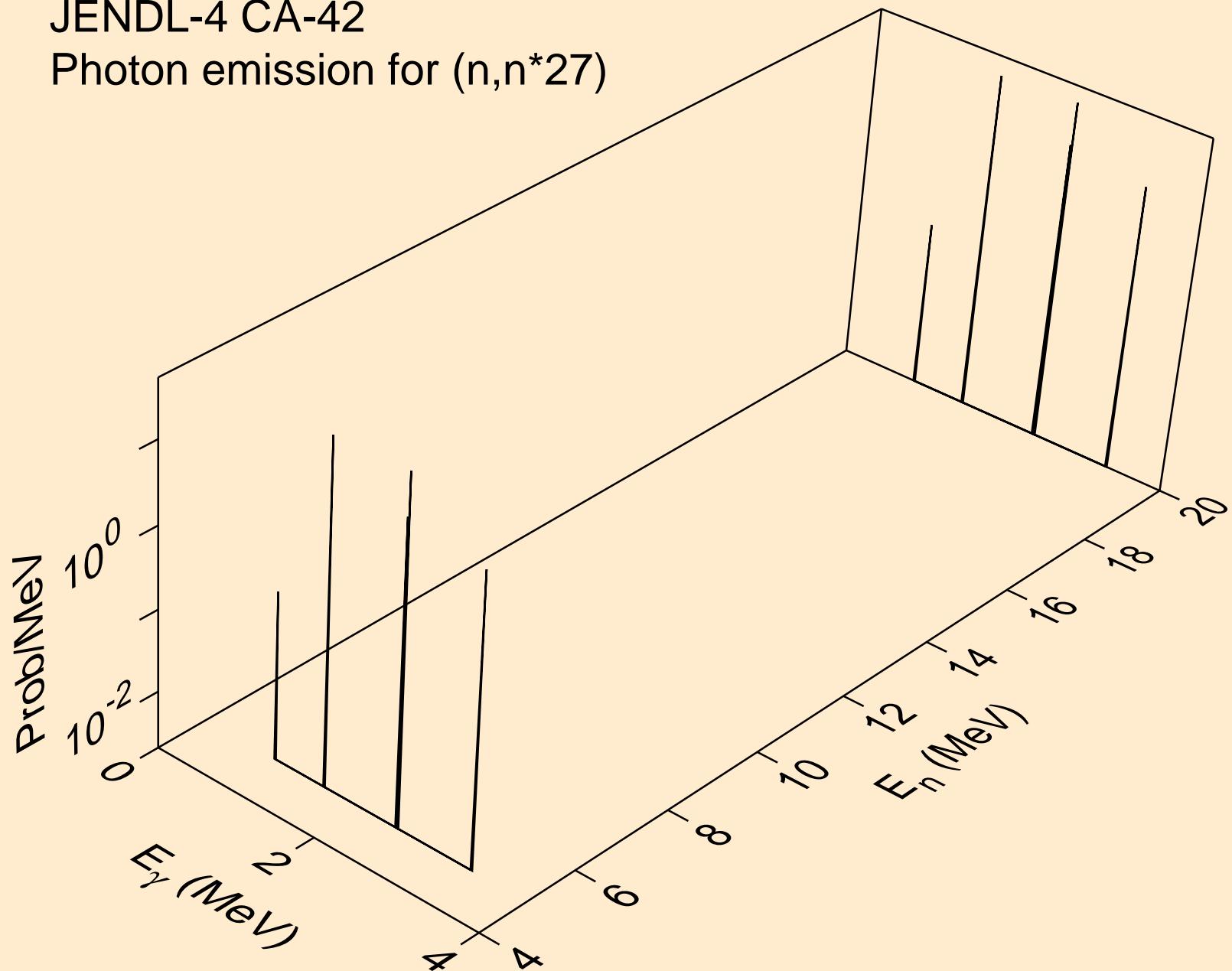
JENDL-4 CA-42  
Photon emission for (n,n\*25)



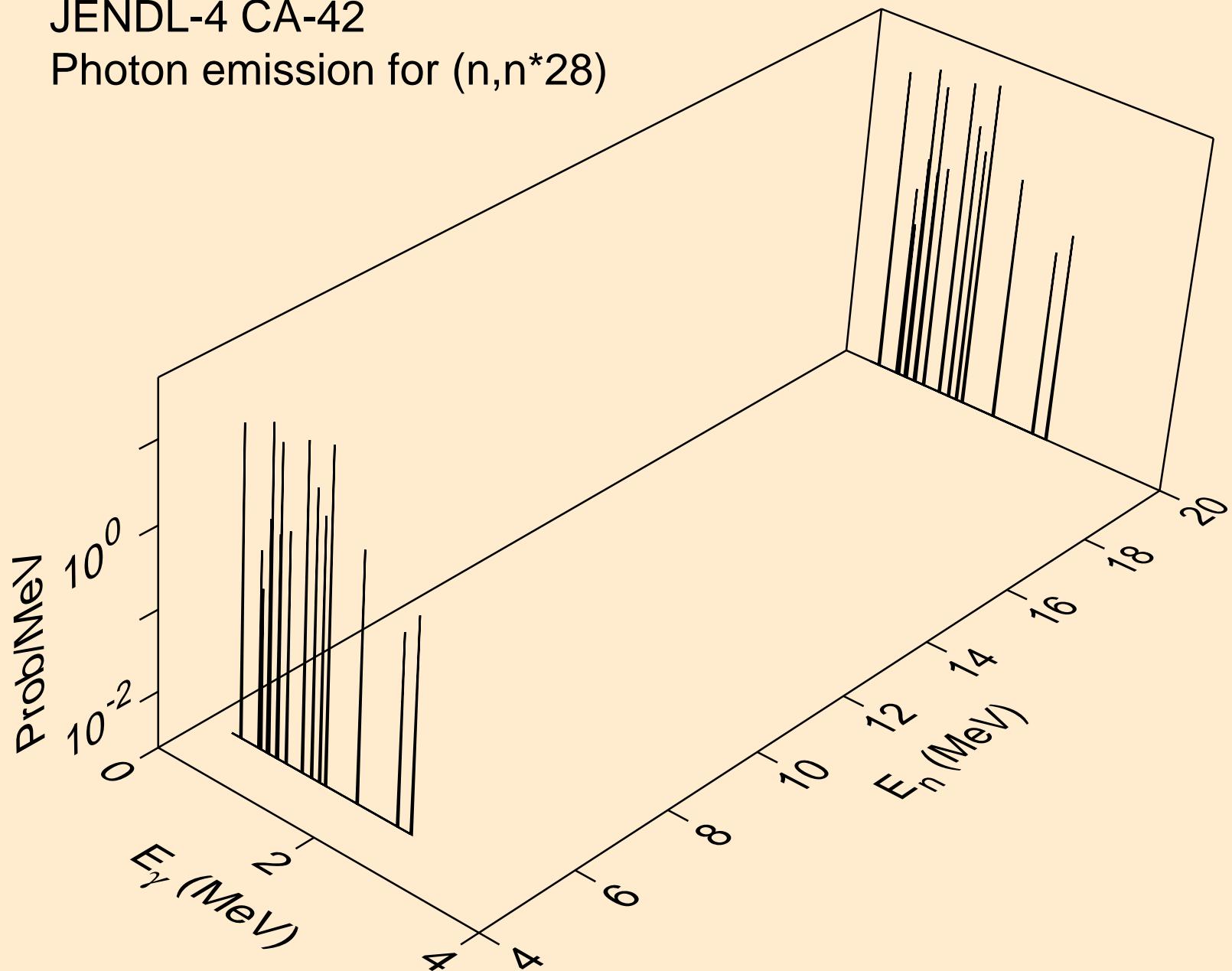
JENDL-4 CA-42  
Photon emission for  $(n,n^*26)$



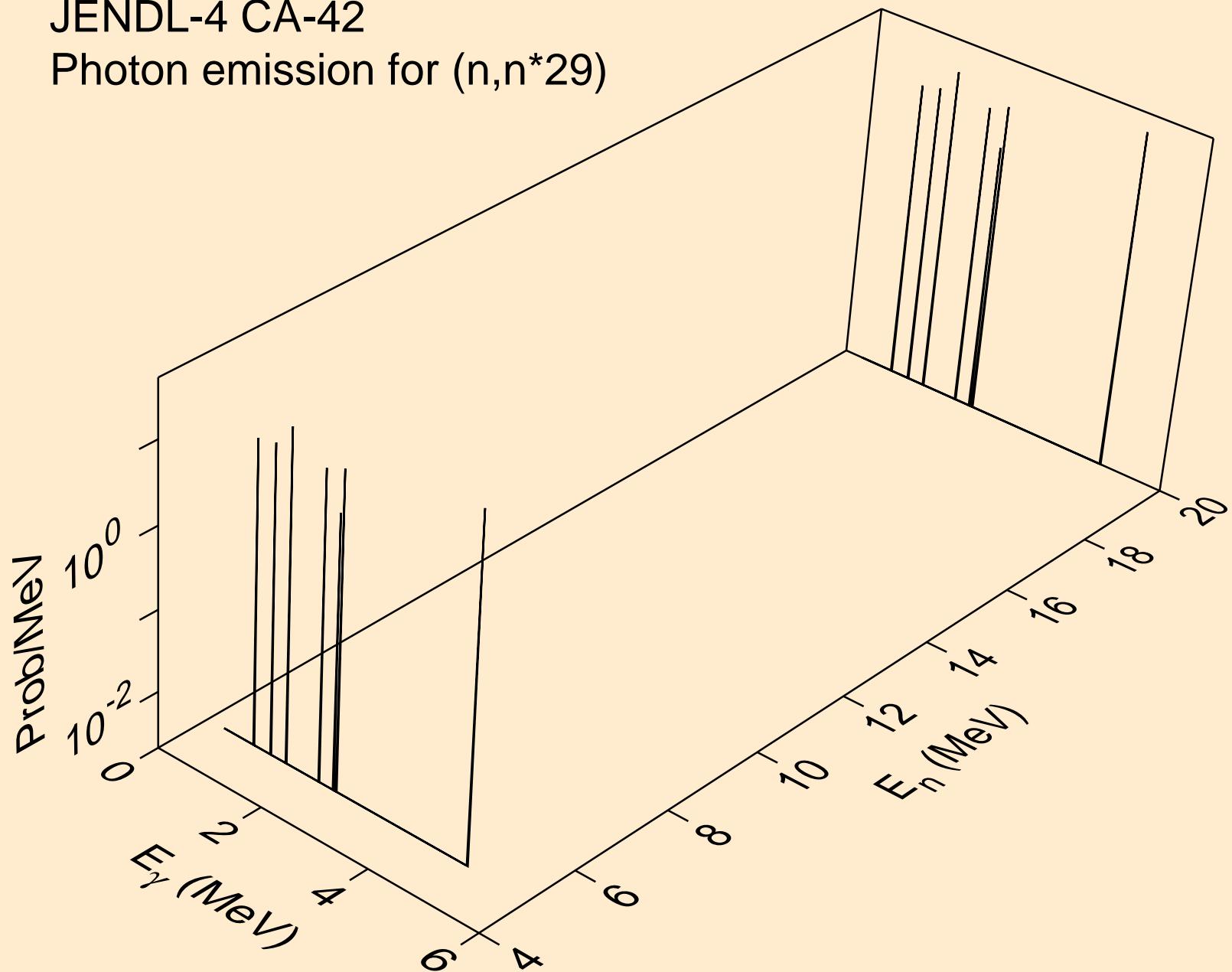
JENDL-4 CA-42  
Photon emission for ( $n, n^* 27$ )



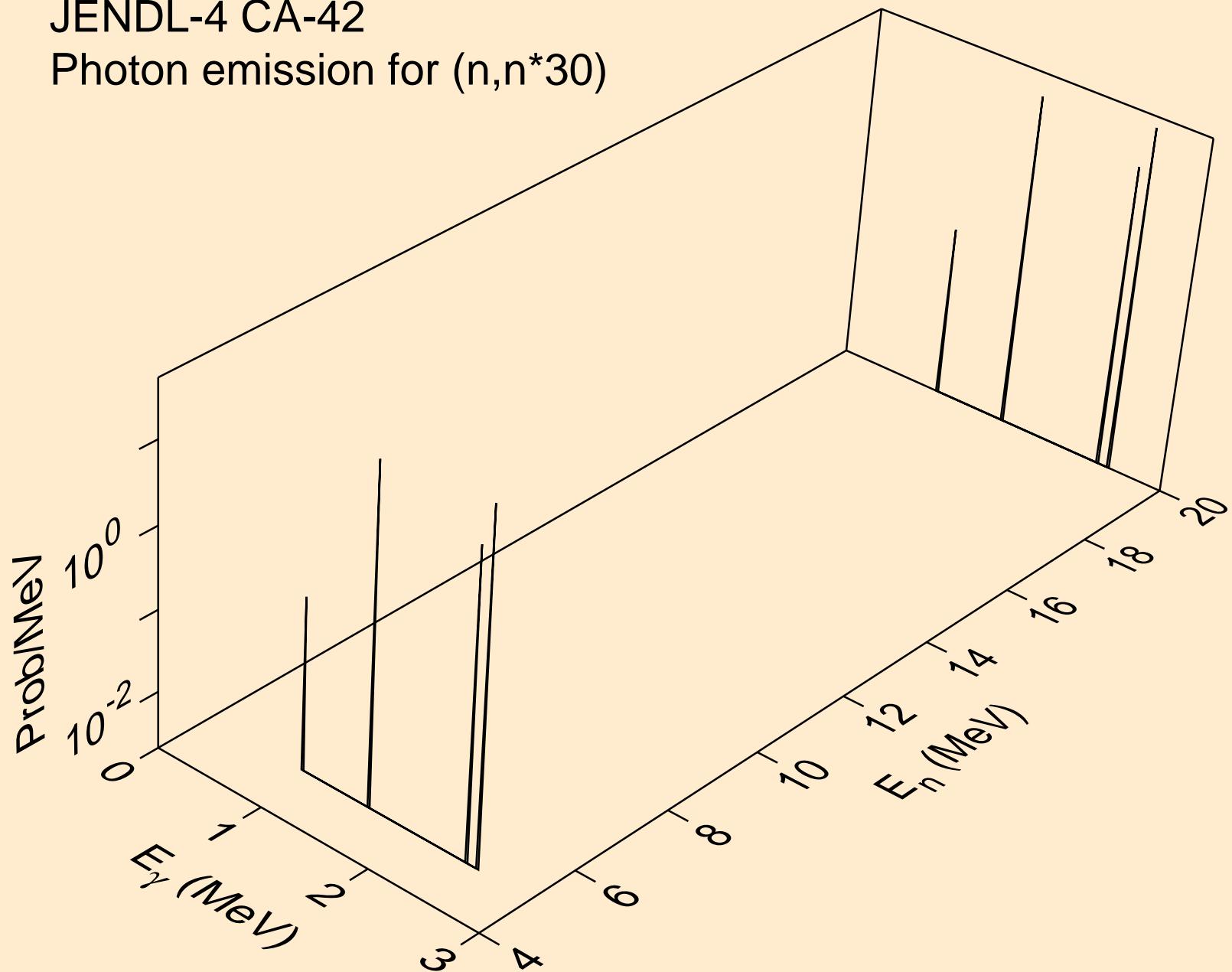
JENDL-4 CA-42  
Photon emission for  $(n,n^*28)$



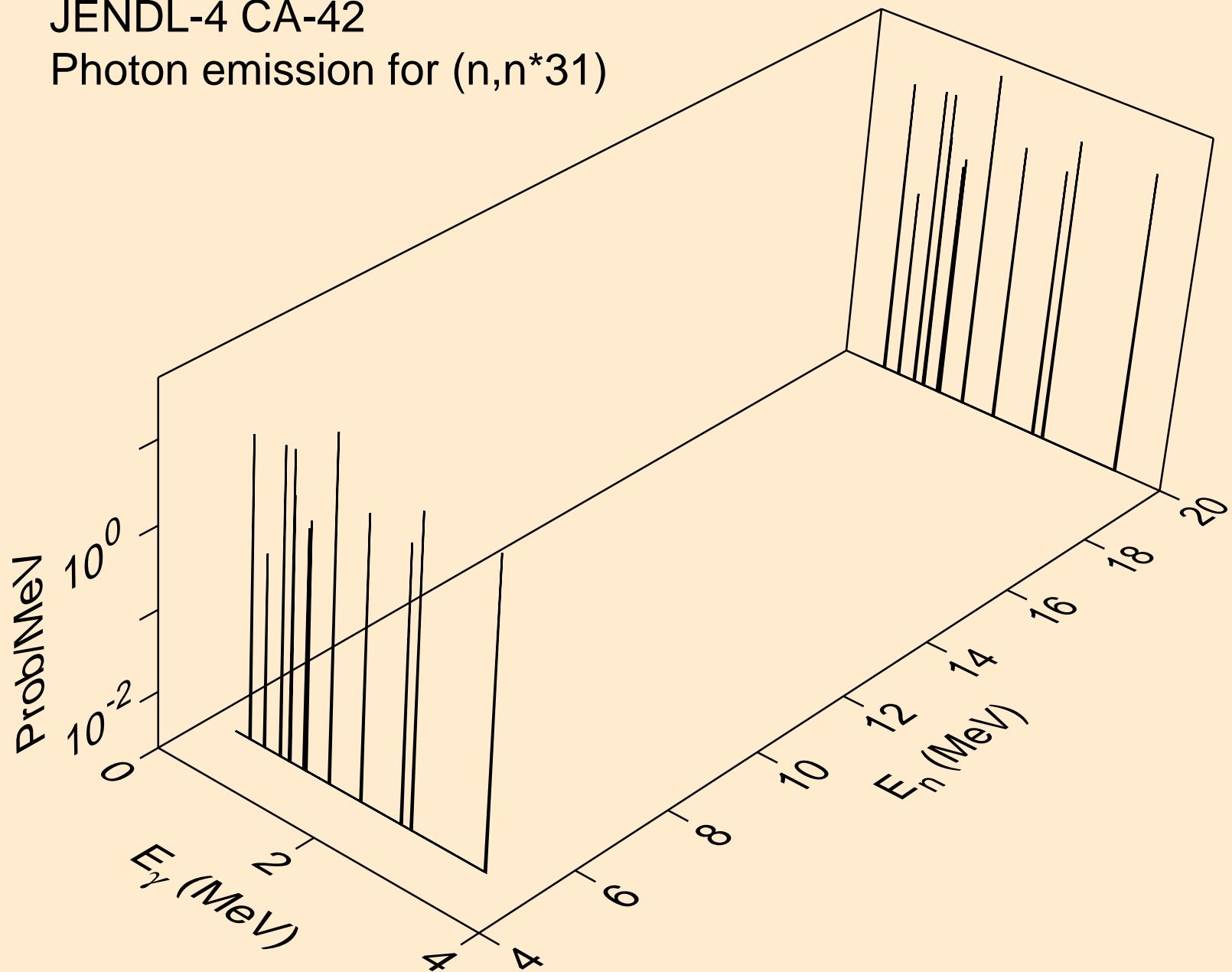
JENDL-4 CA-42  
Photon emission for ( $n, n^* 29$ )



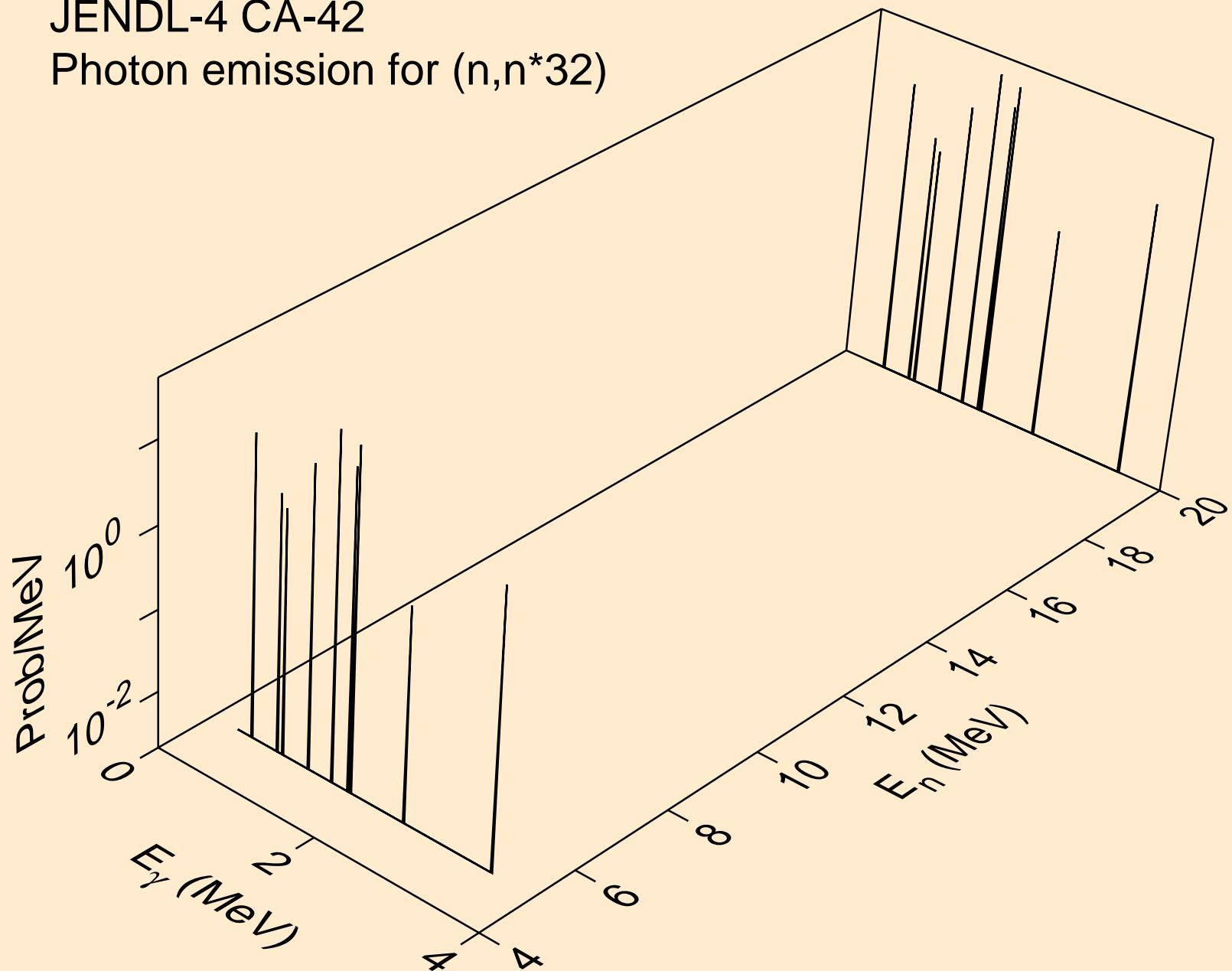
JENDL-4 CA-42  
Photon emission for  $(n,n^*30)$



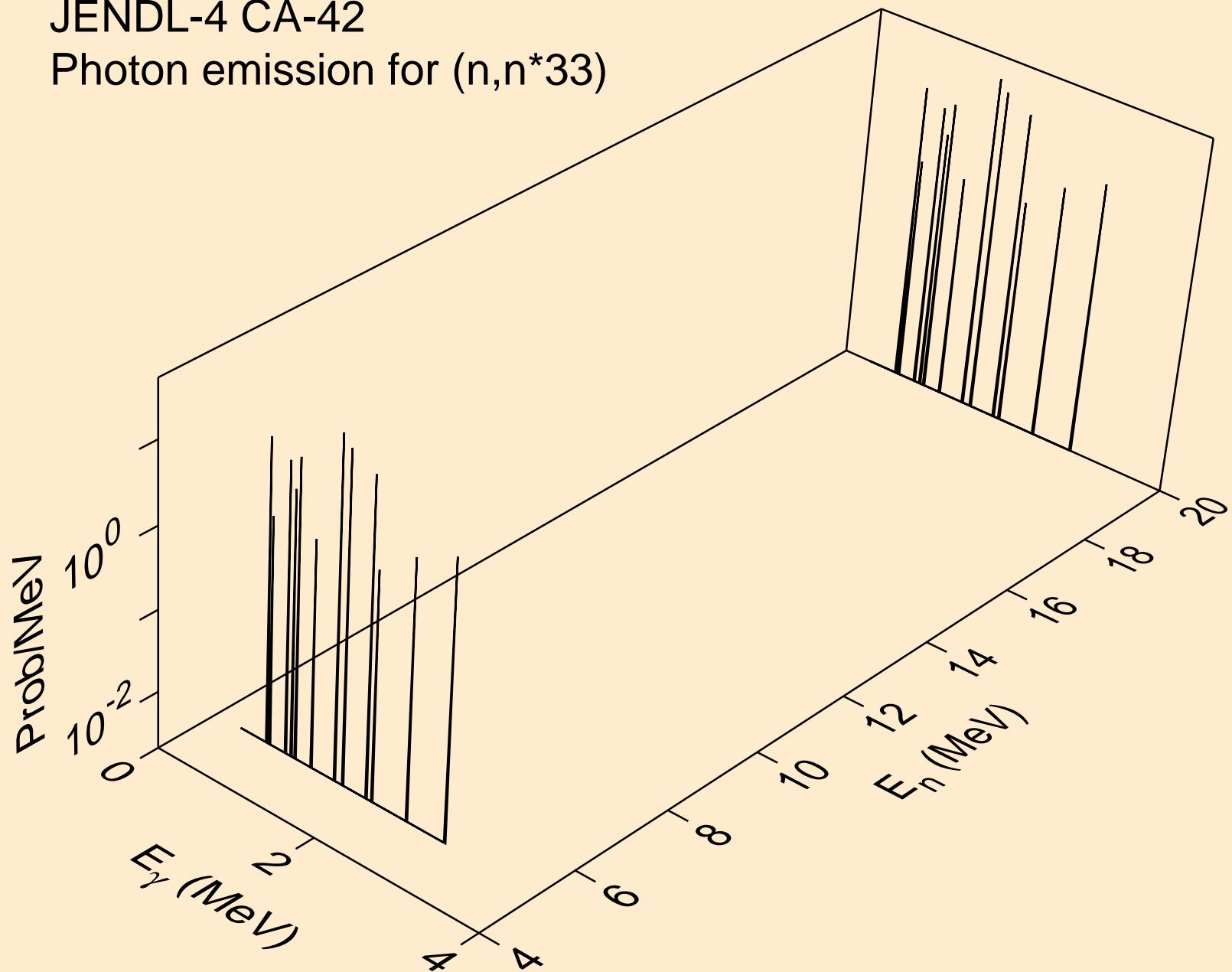
JENDL-4 CA-42  
Photon emission for ( $n, n^*$ )<sup>31</sup>



JENDL-4 CA-42  
Photon emission for ( $n, n^* 32$ )

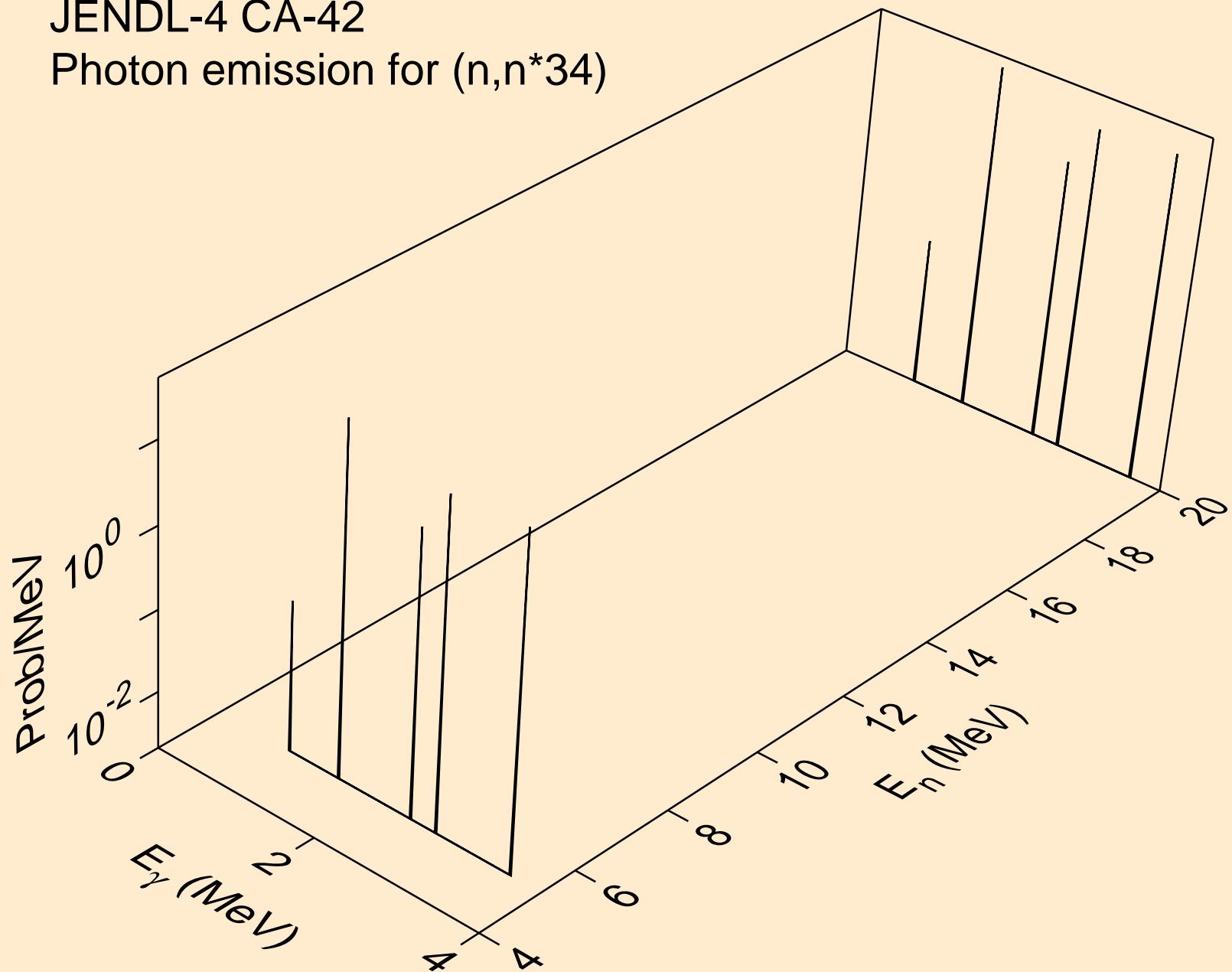


JENDL-4 CA-42  
Photon emission for ( $n, n^*$ )33

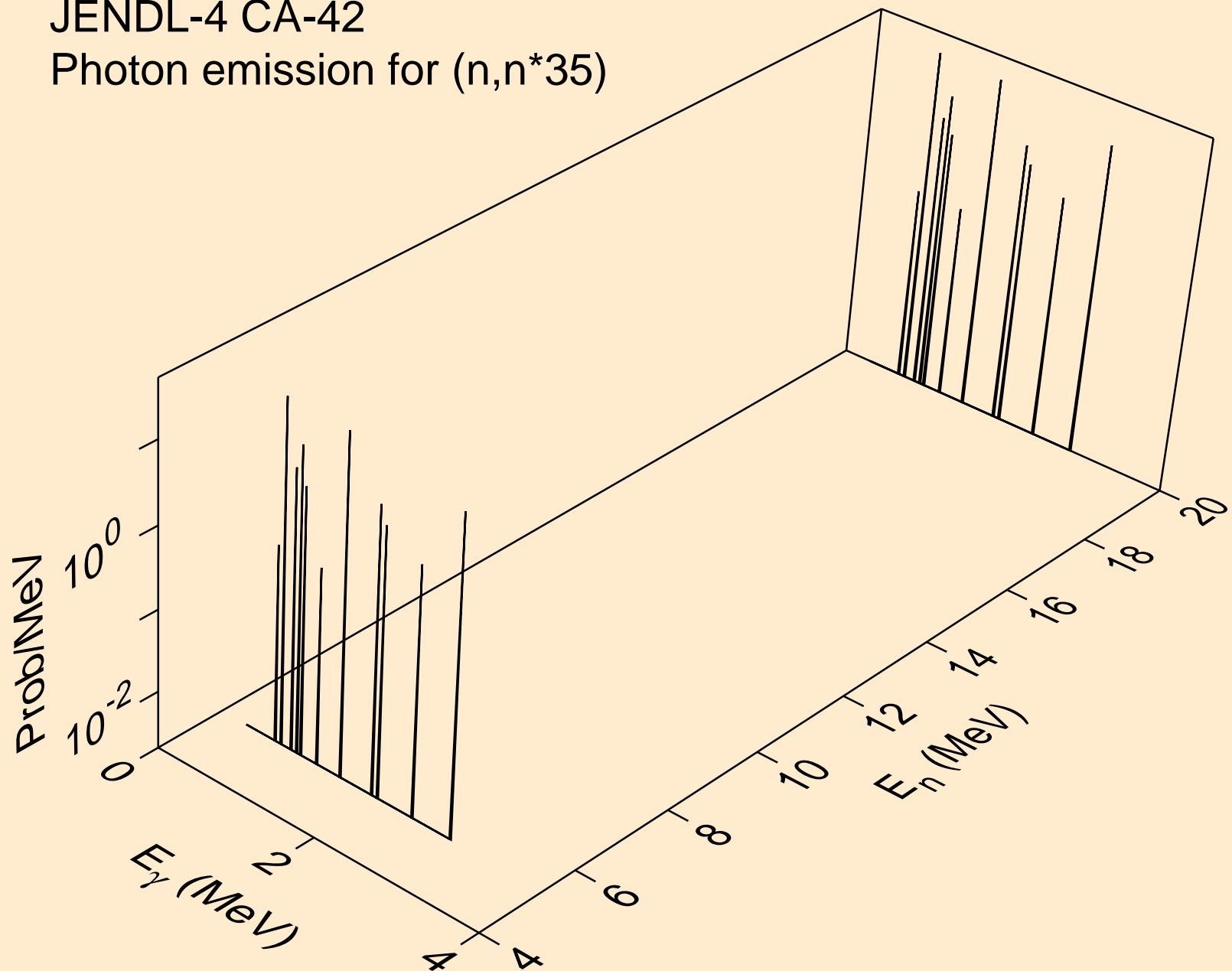


JENDL-4 CA-42

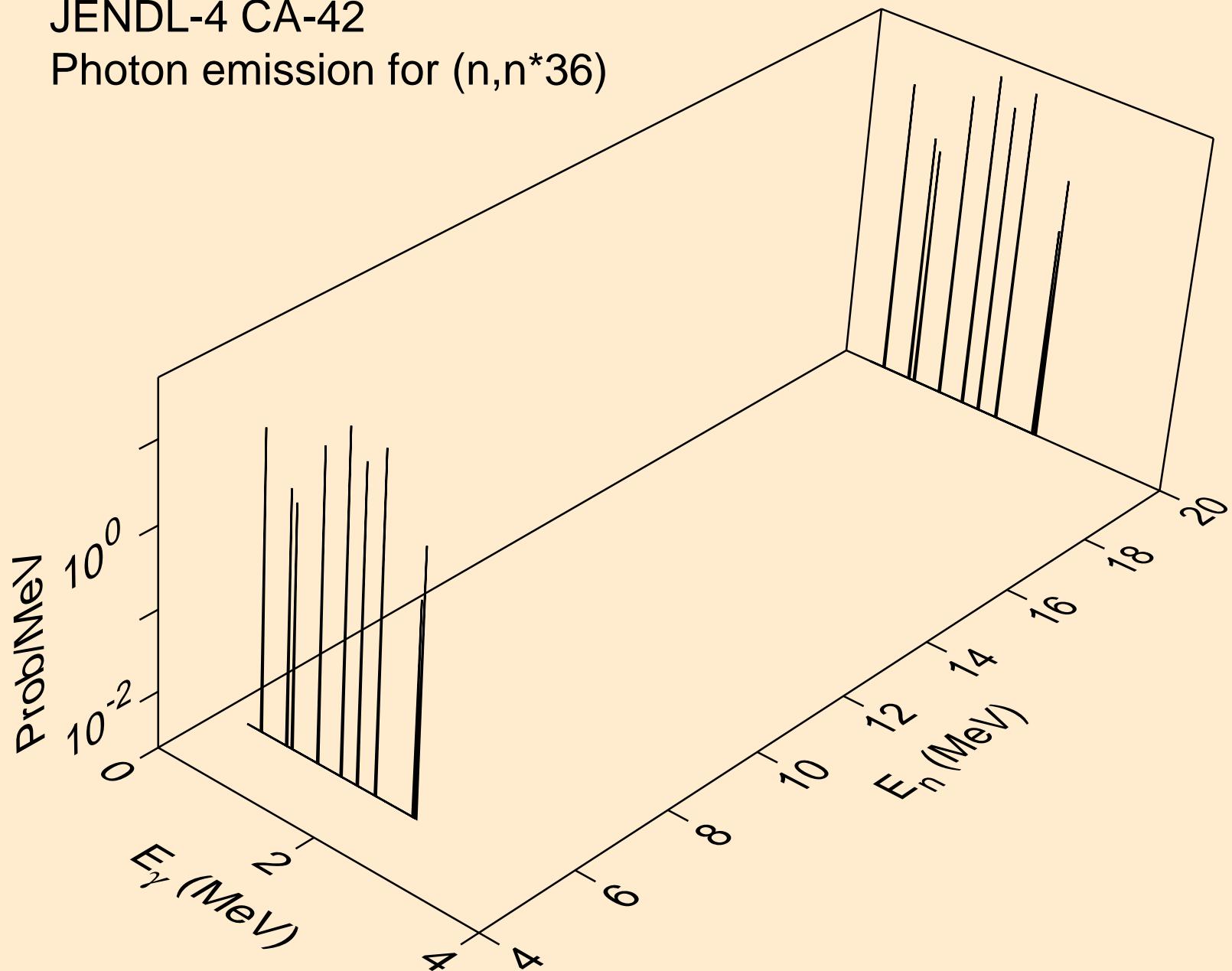
Photon emission for  $(n,n^*34)$



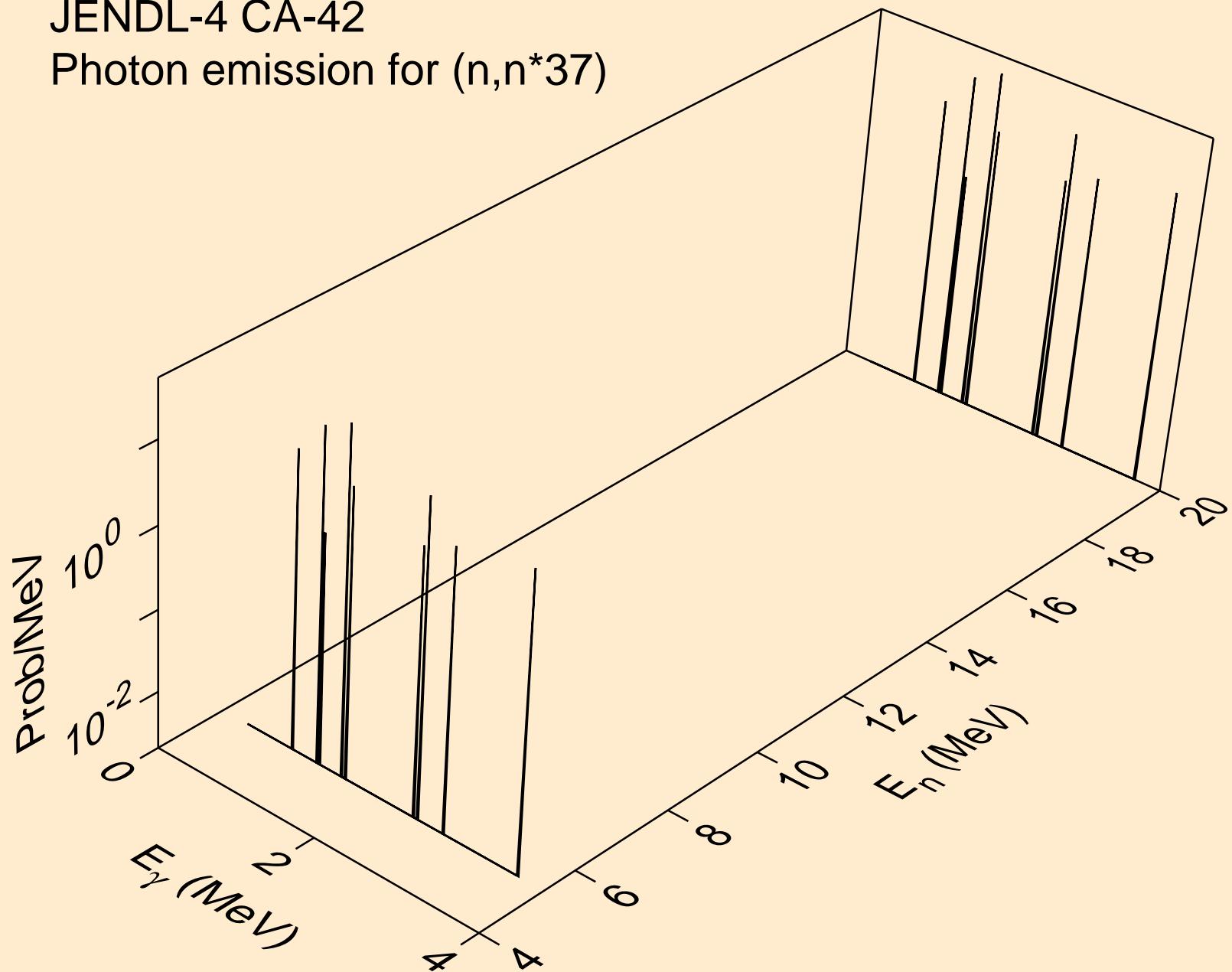
JENDL-4 CA-42  
Photon emission for ( $n, n^*$ )<sup>35</sup>



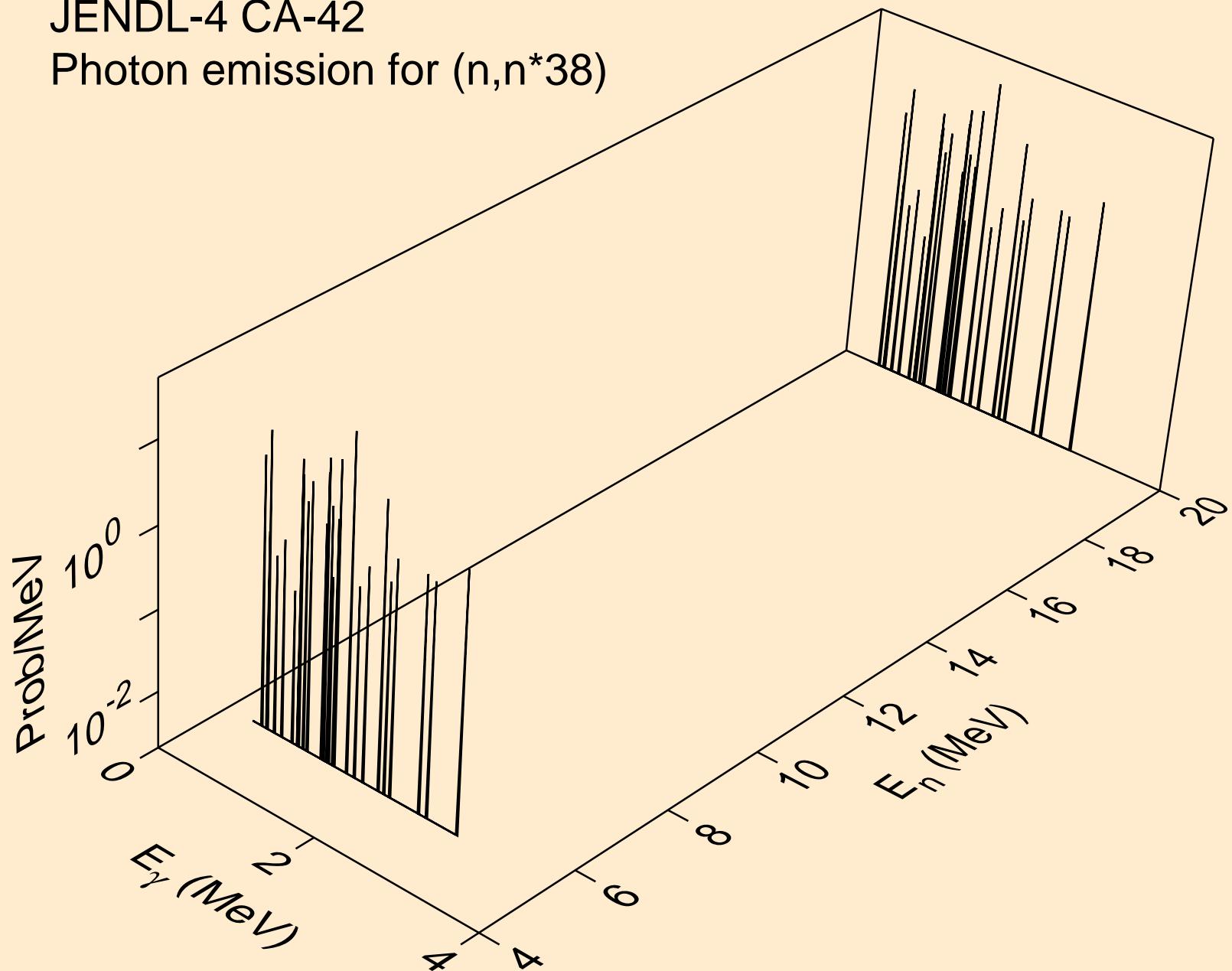
JENDL-4 CA-42  
Photon emission for  $(n,n^*36)$



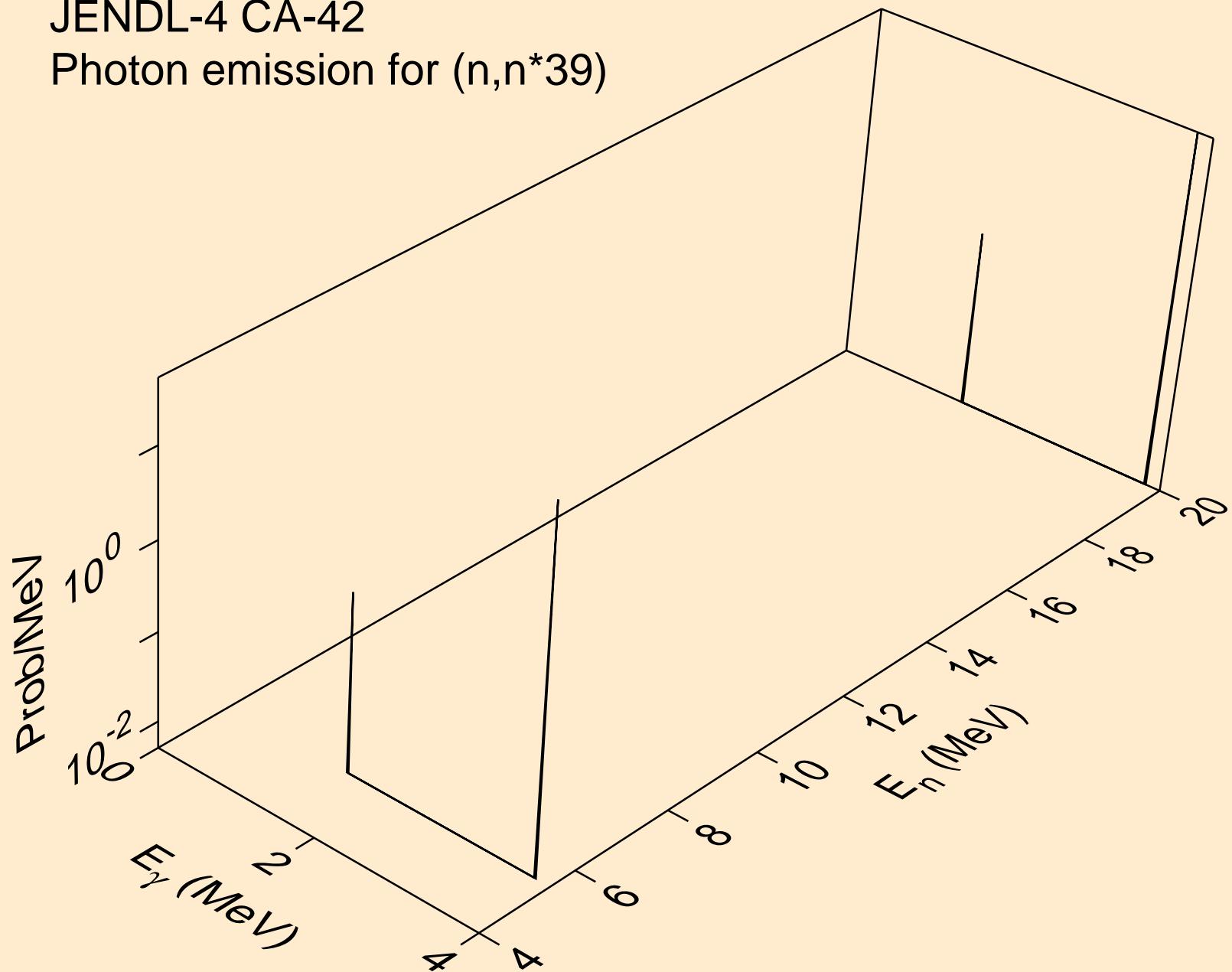
JENDL-4 CA-42  
Photon emission for ( $n, n^*$ )<sup>37</sup>



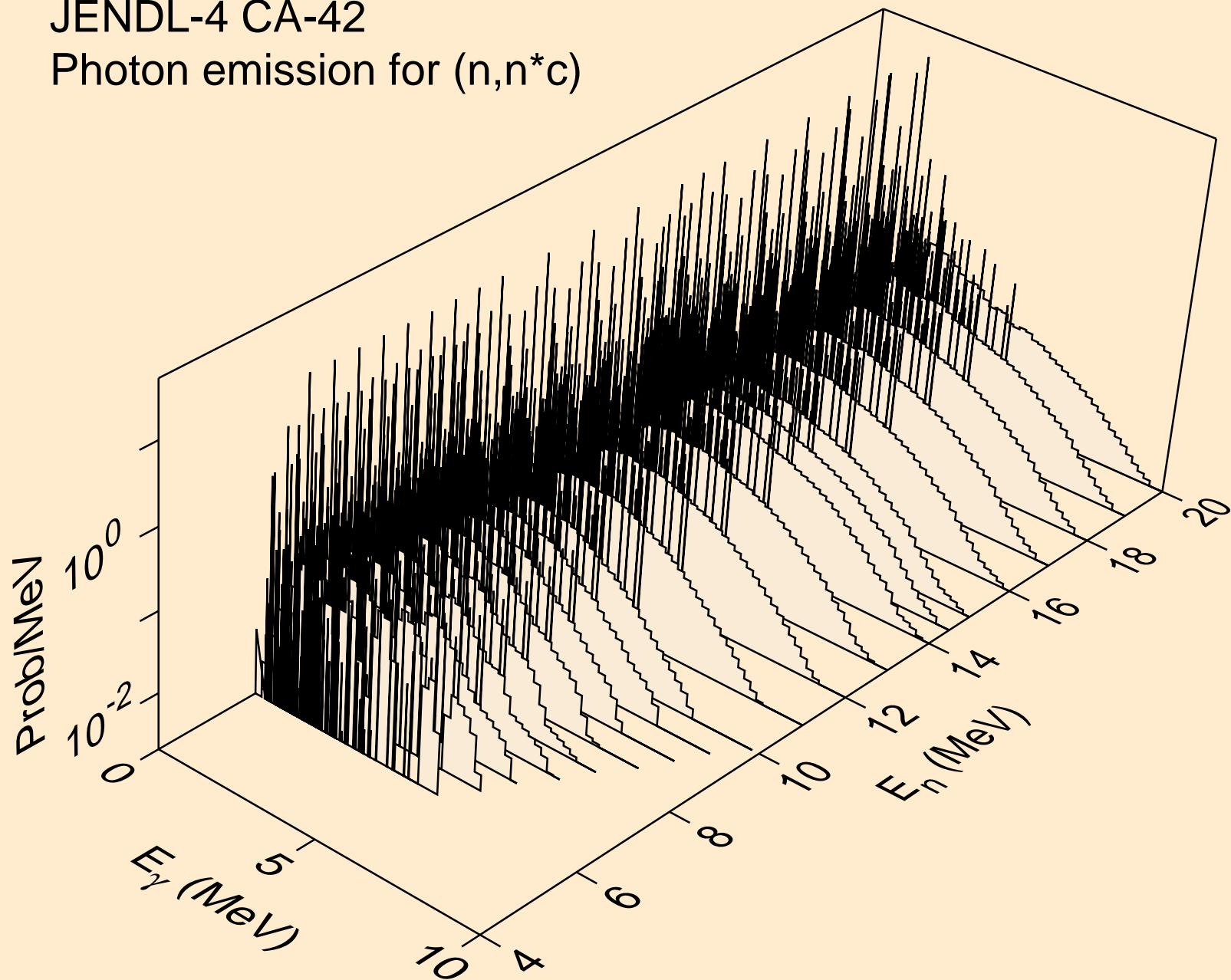
JENDL-4 CA-42  
Photon emission for  $(n,n^*38)$



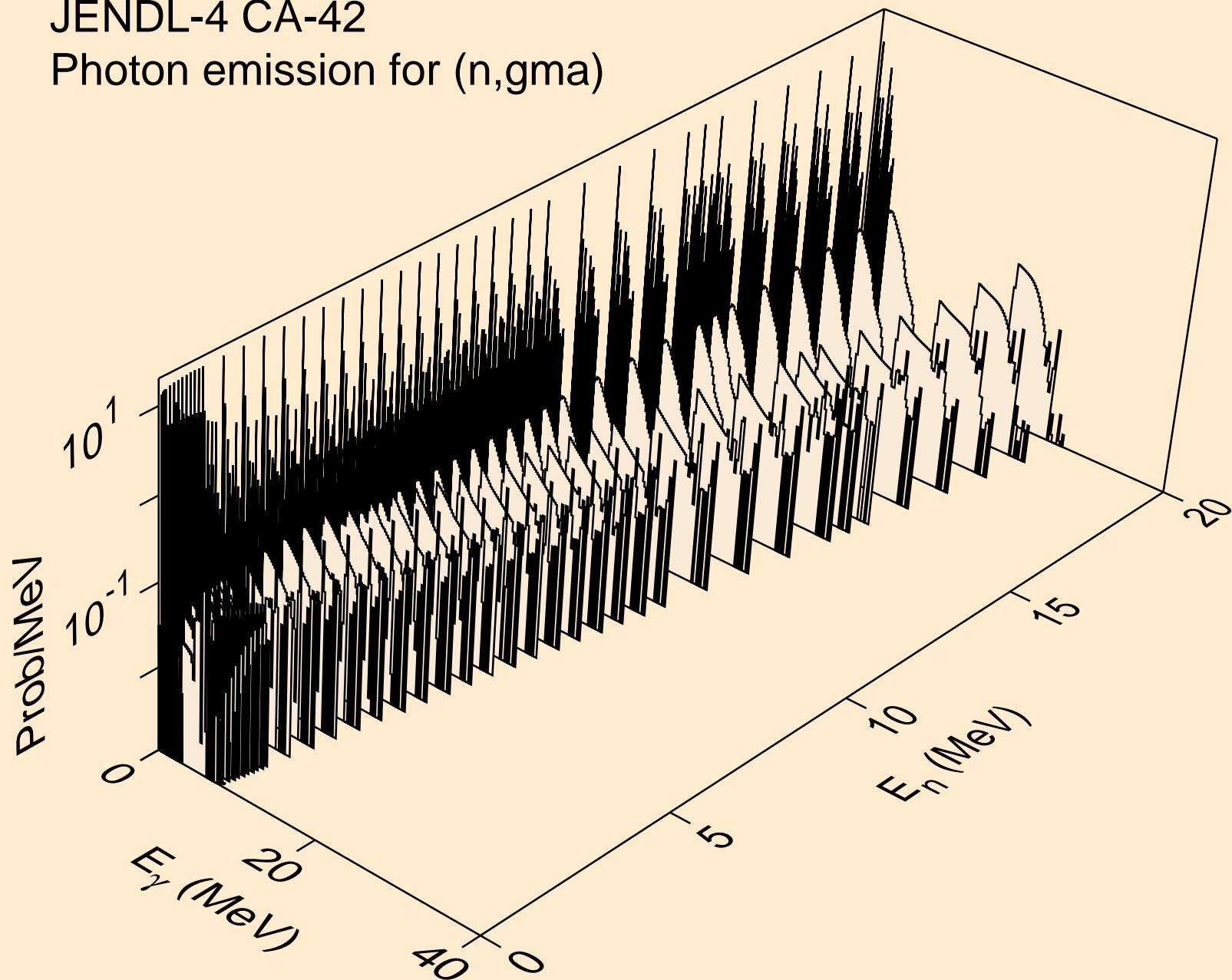
JENDL-4 CA-42  
Photon emission for ( $n, n^* 39$ )



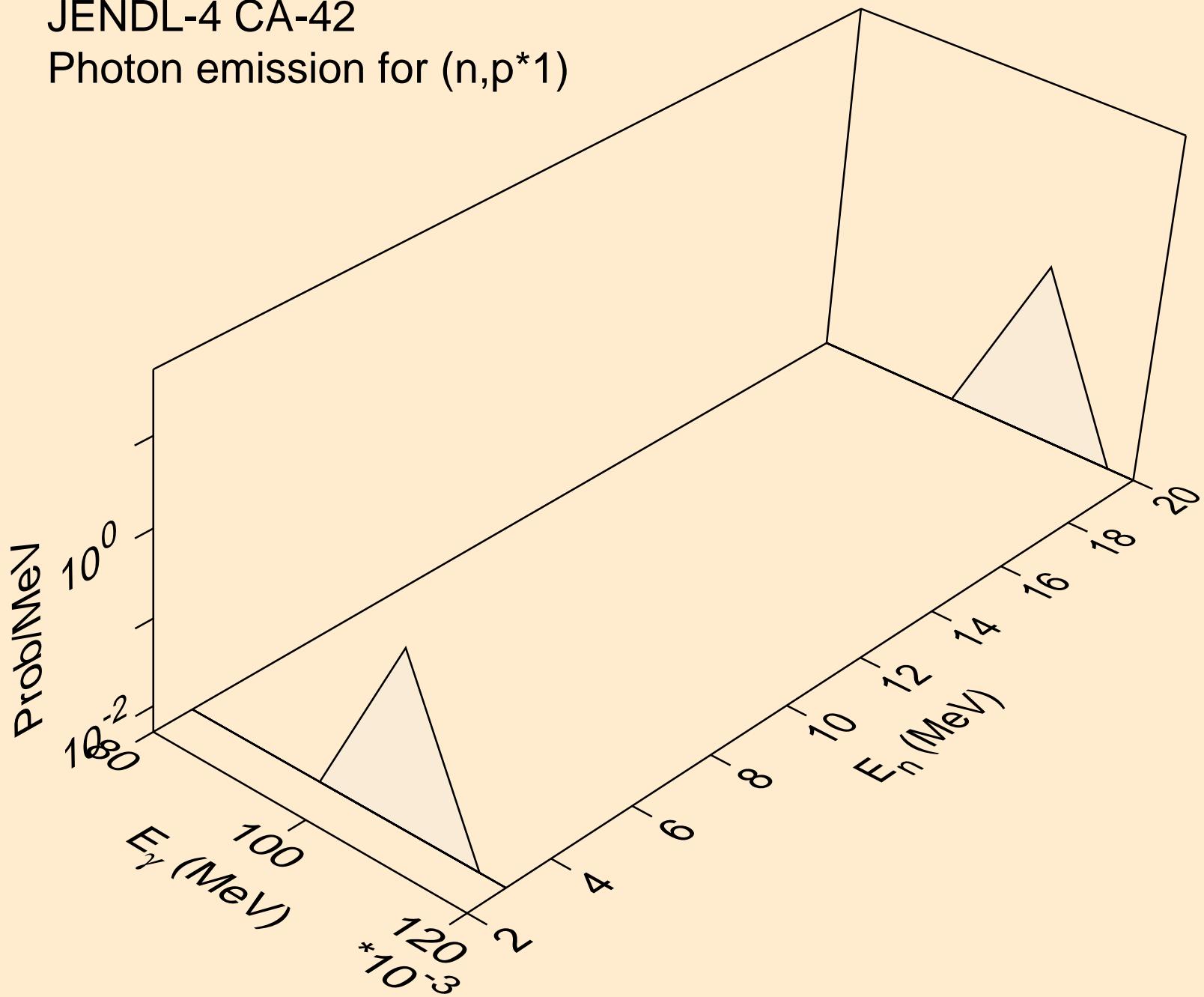
JENDL-4 CA-42  
Photon emission for  $(n,n^*c)$



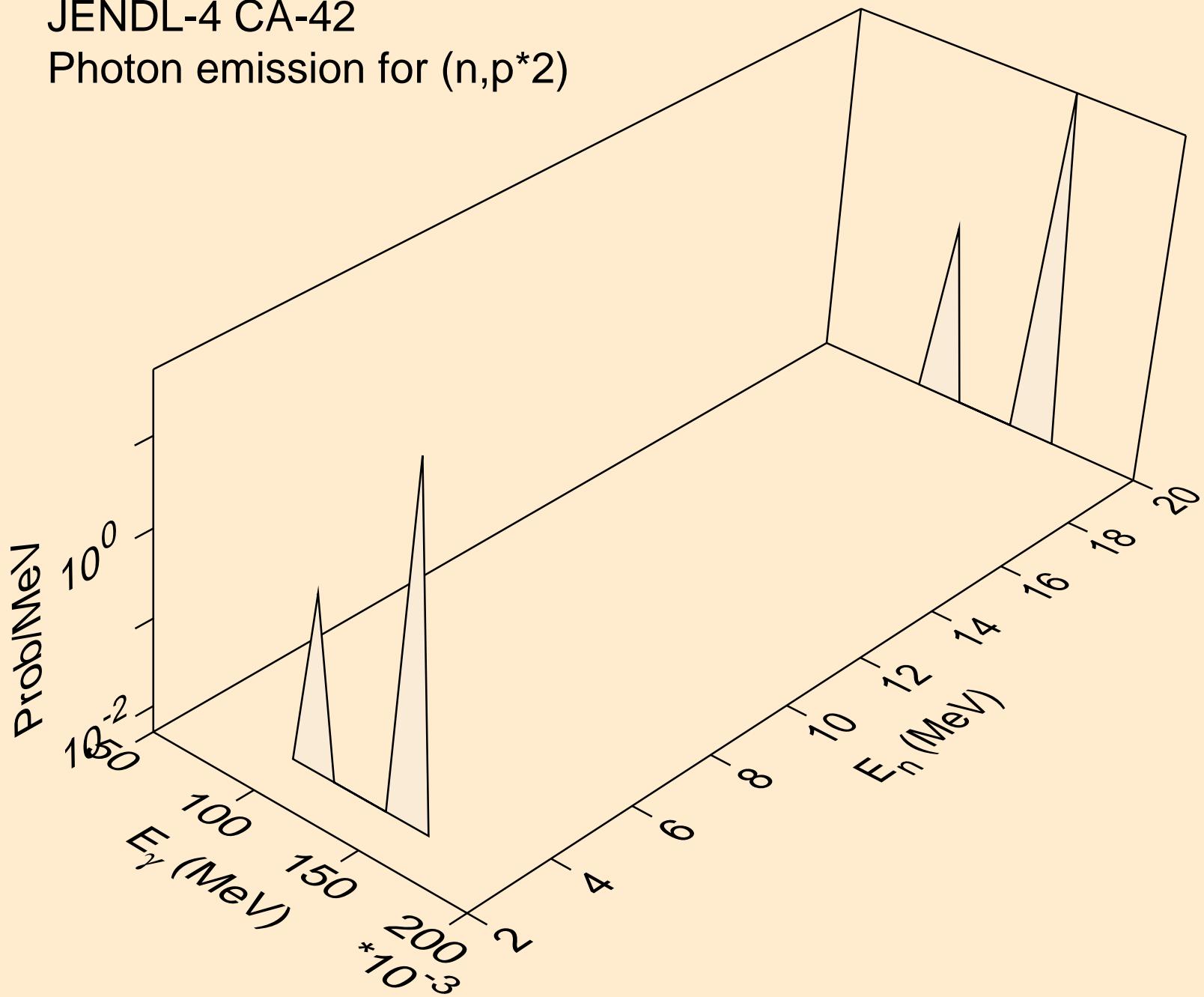
JENDL-4 CA-42  
Photon emission for (n,gma)



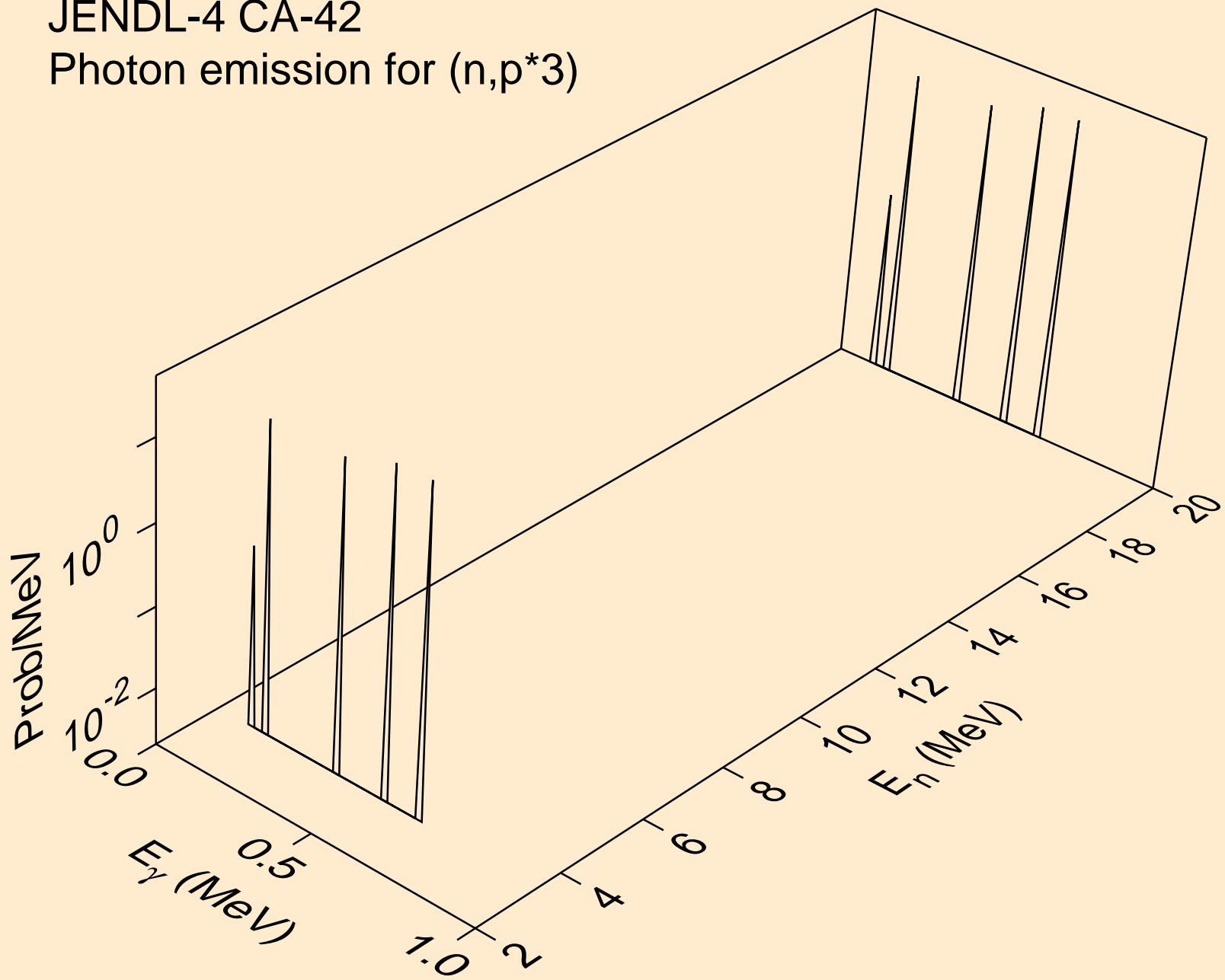
JENDL-4 CA-42  
Photon emission for (n,p\*1)



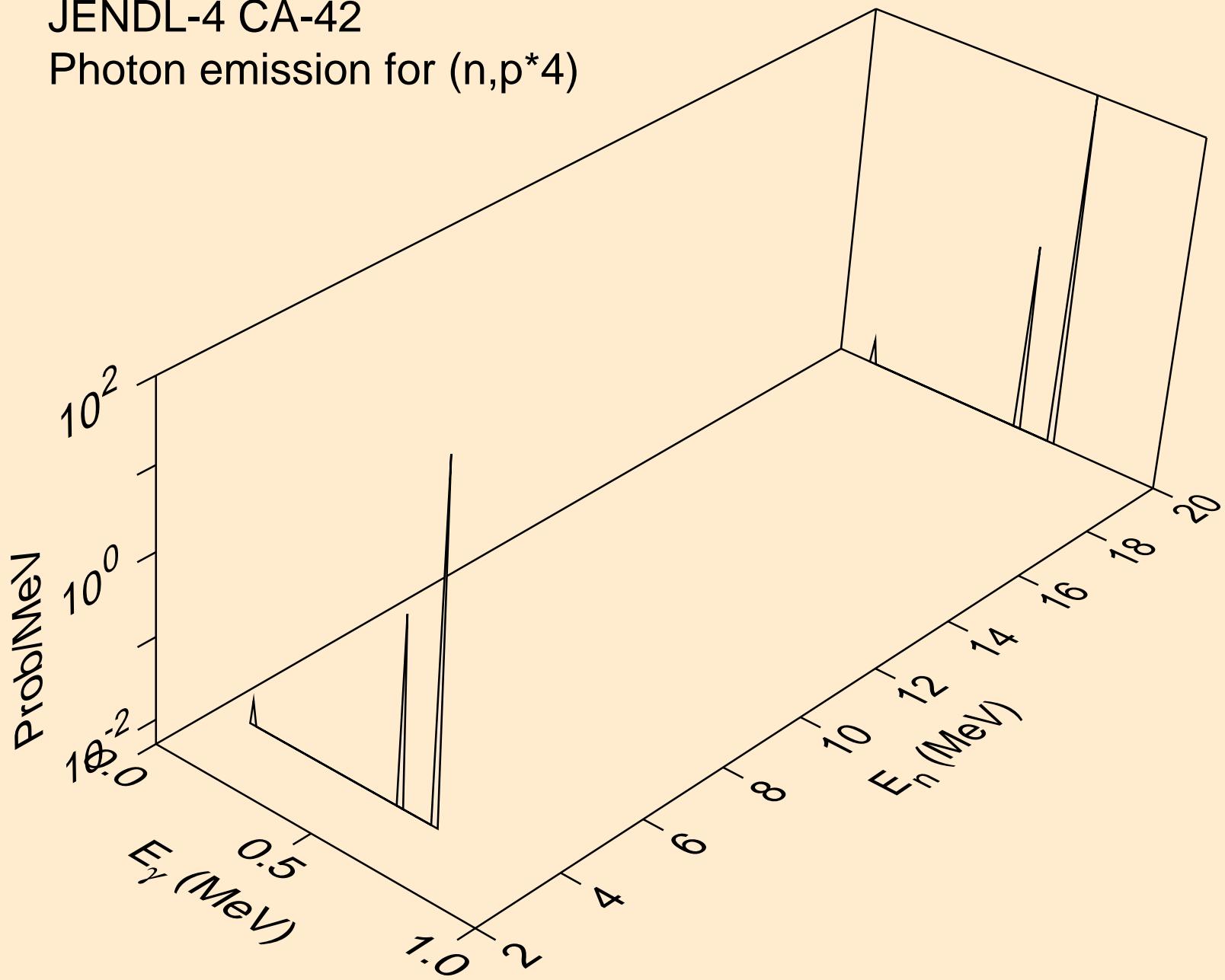
JENDL-4 CA-42  
Photon emission for  $(n,p^*2)$



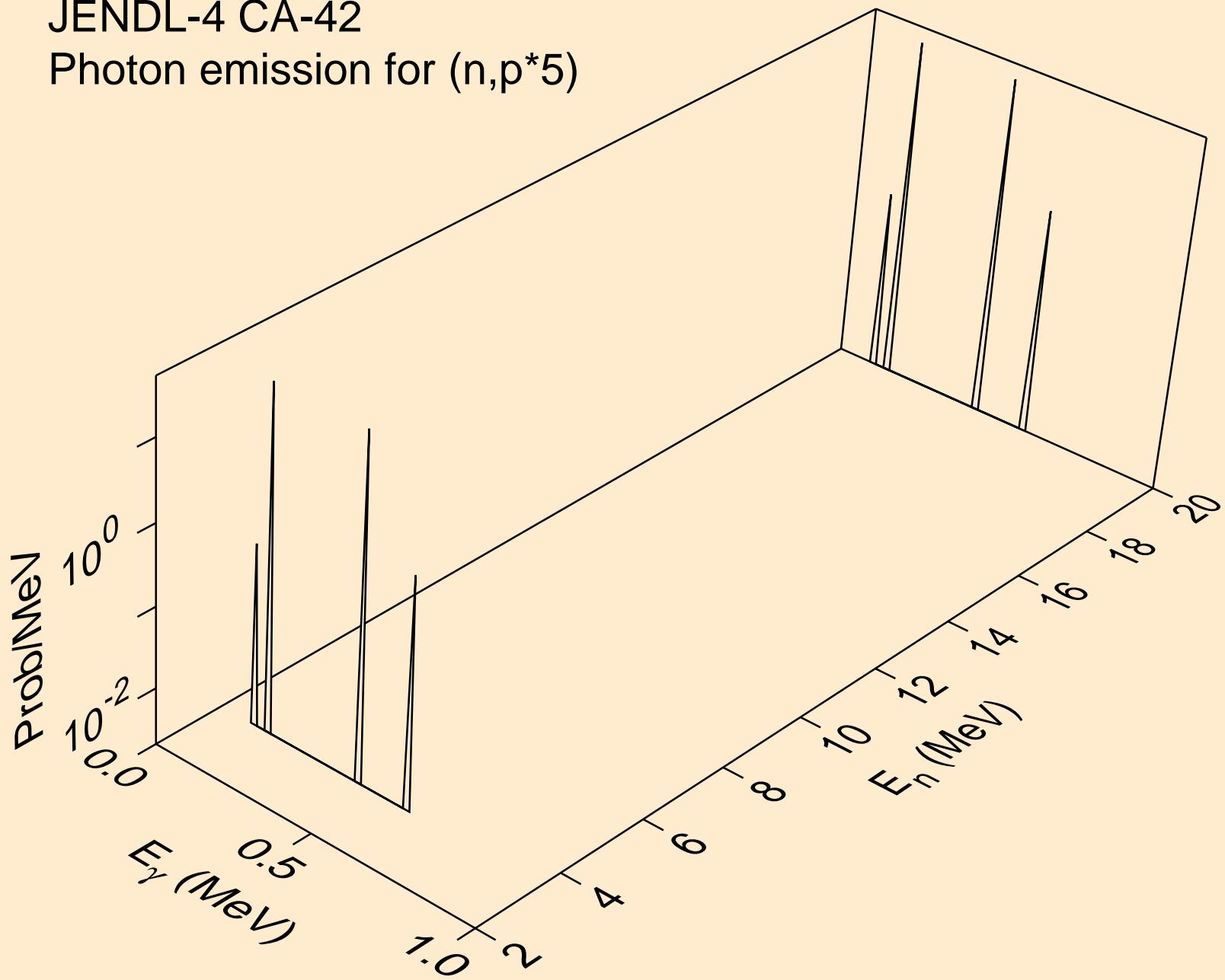
JENDL-4 CA-42  
Photon emission for (n,p\*3)



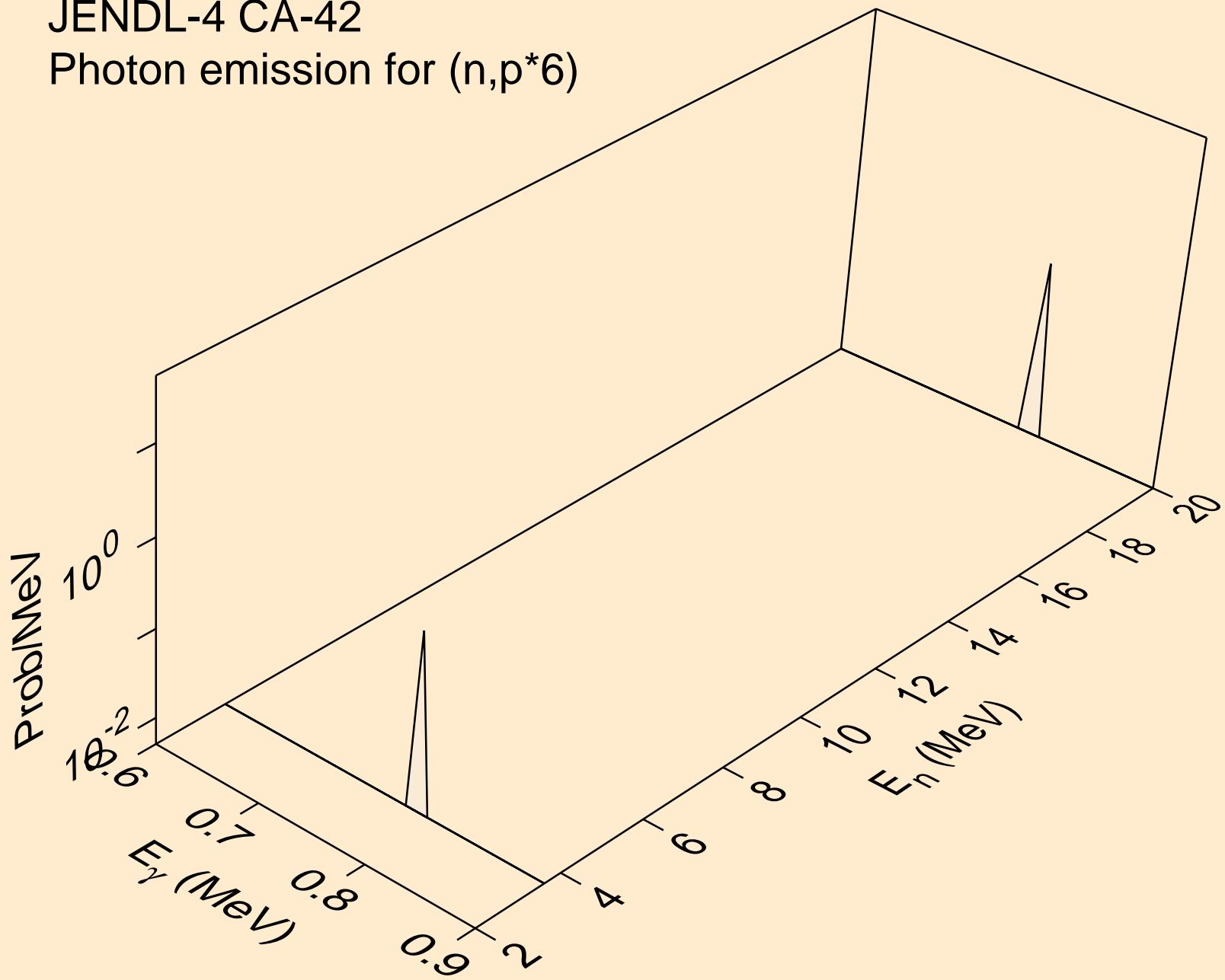
JENDL-4 CA-42  
Photon emission for (n,p\*4)



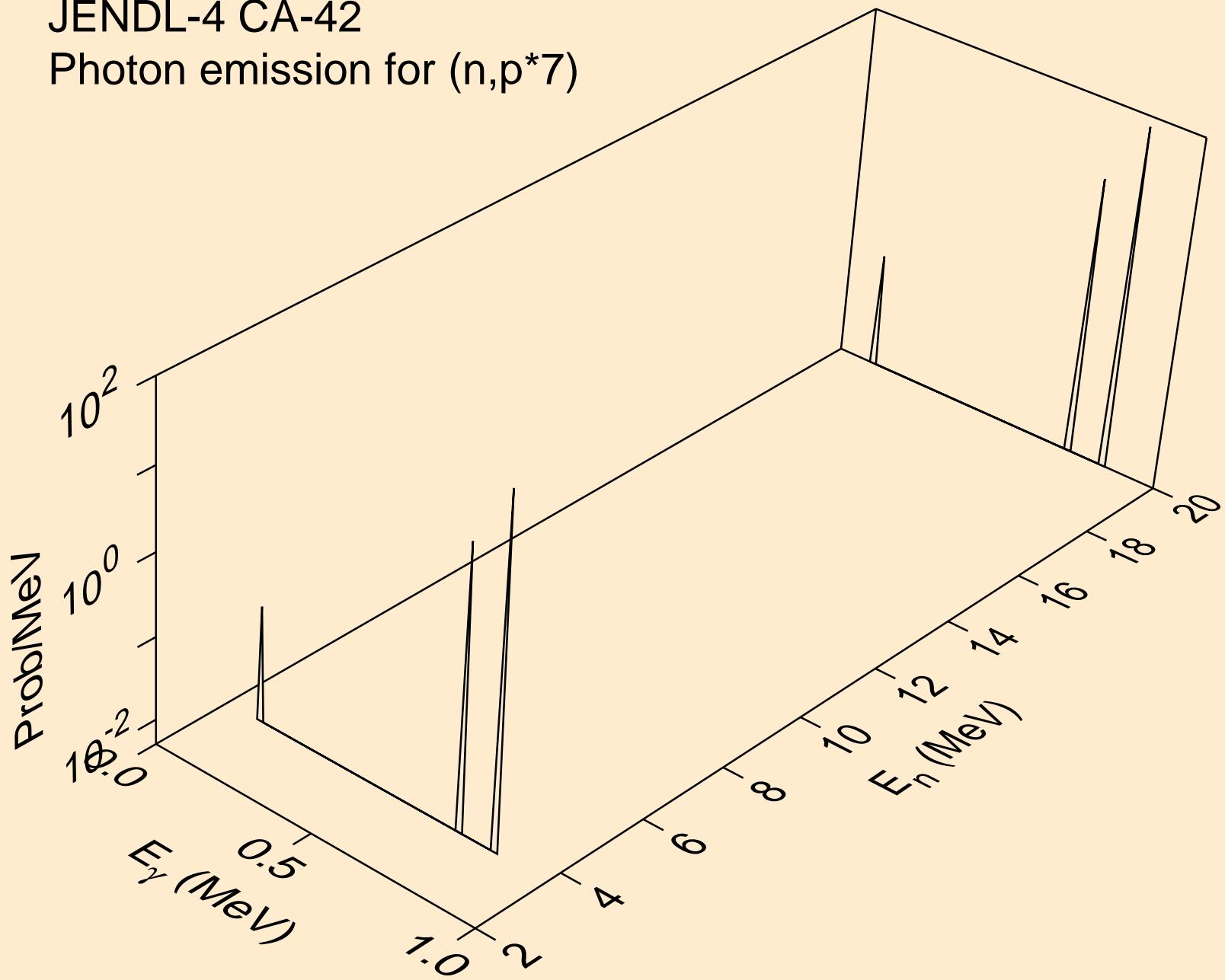
JENDL-4 CA-42  
Photon emission for (n,p\*5)



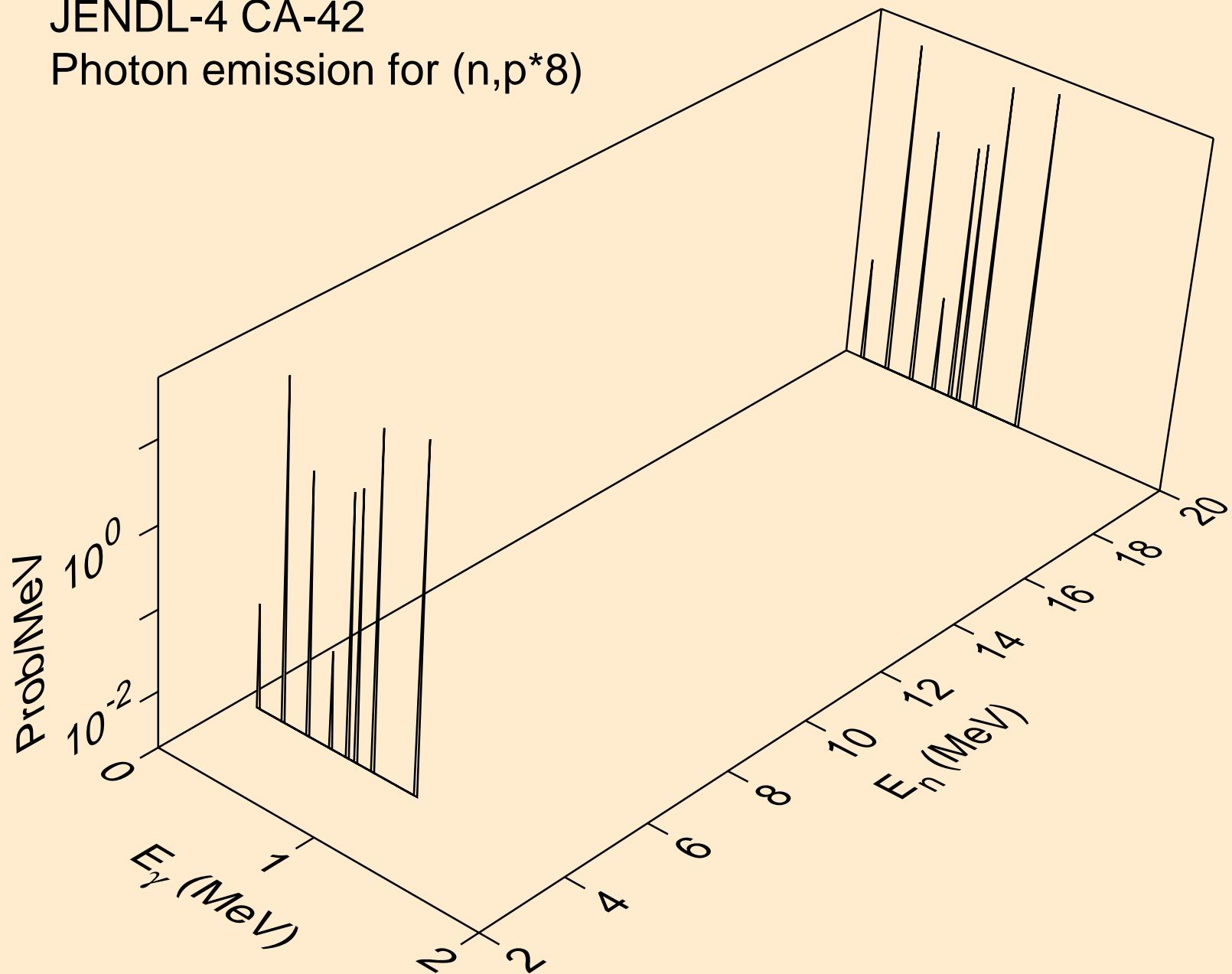
JENDL-4 CA-42  
Photon emission for  $(n,p^*6)$



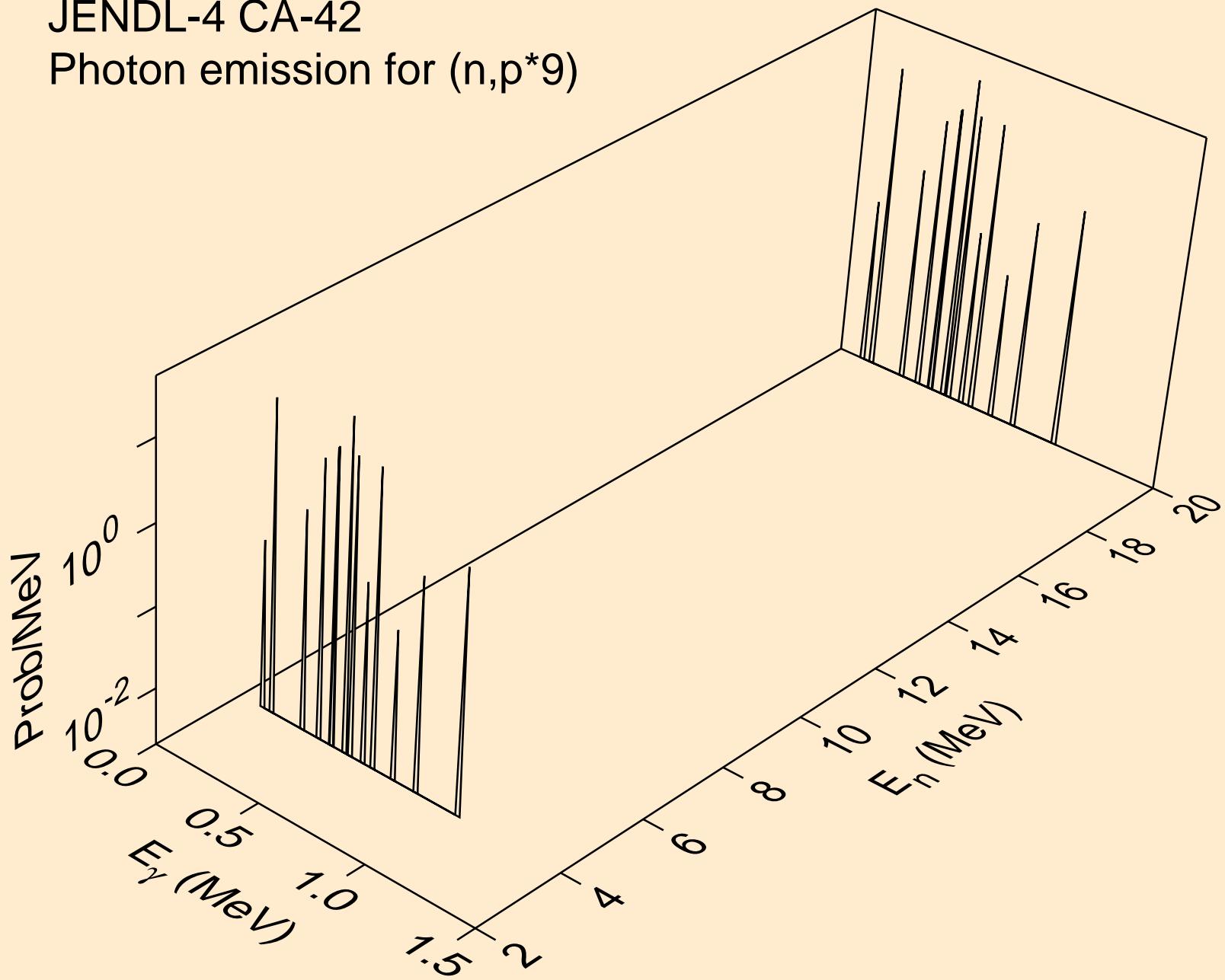
JENDL-4 CA-42  
Photon emission for  $(n,p^*7)$



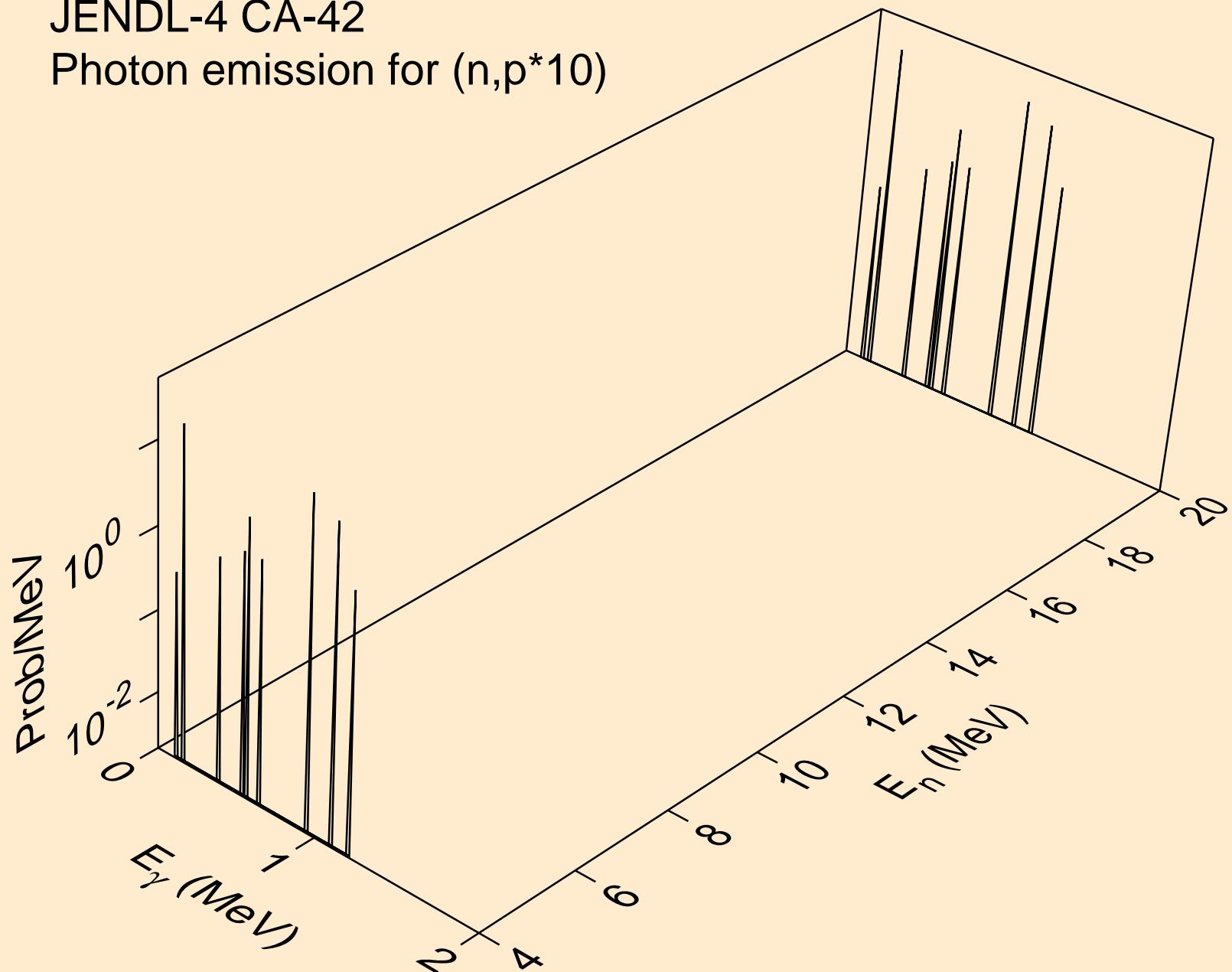
JENDL-4 CA-42  
Photon emission for (n,p\*8)



JENDL-4 CA-42  
Photon emission for (n,p\*9)

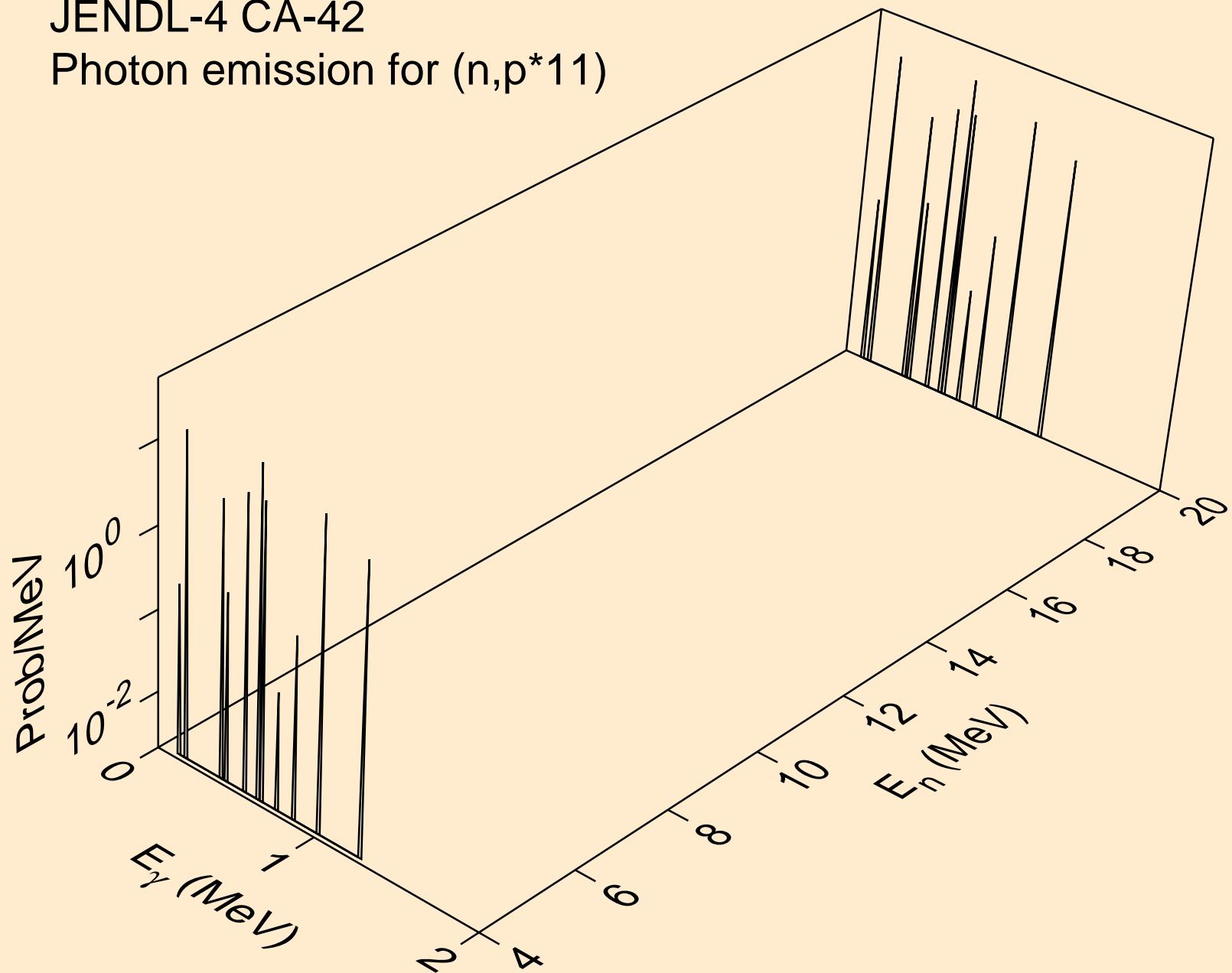


JENDL-4 CA-42  
Photon emission for (n,p\*10)

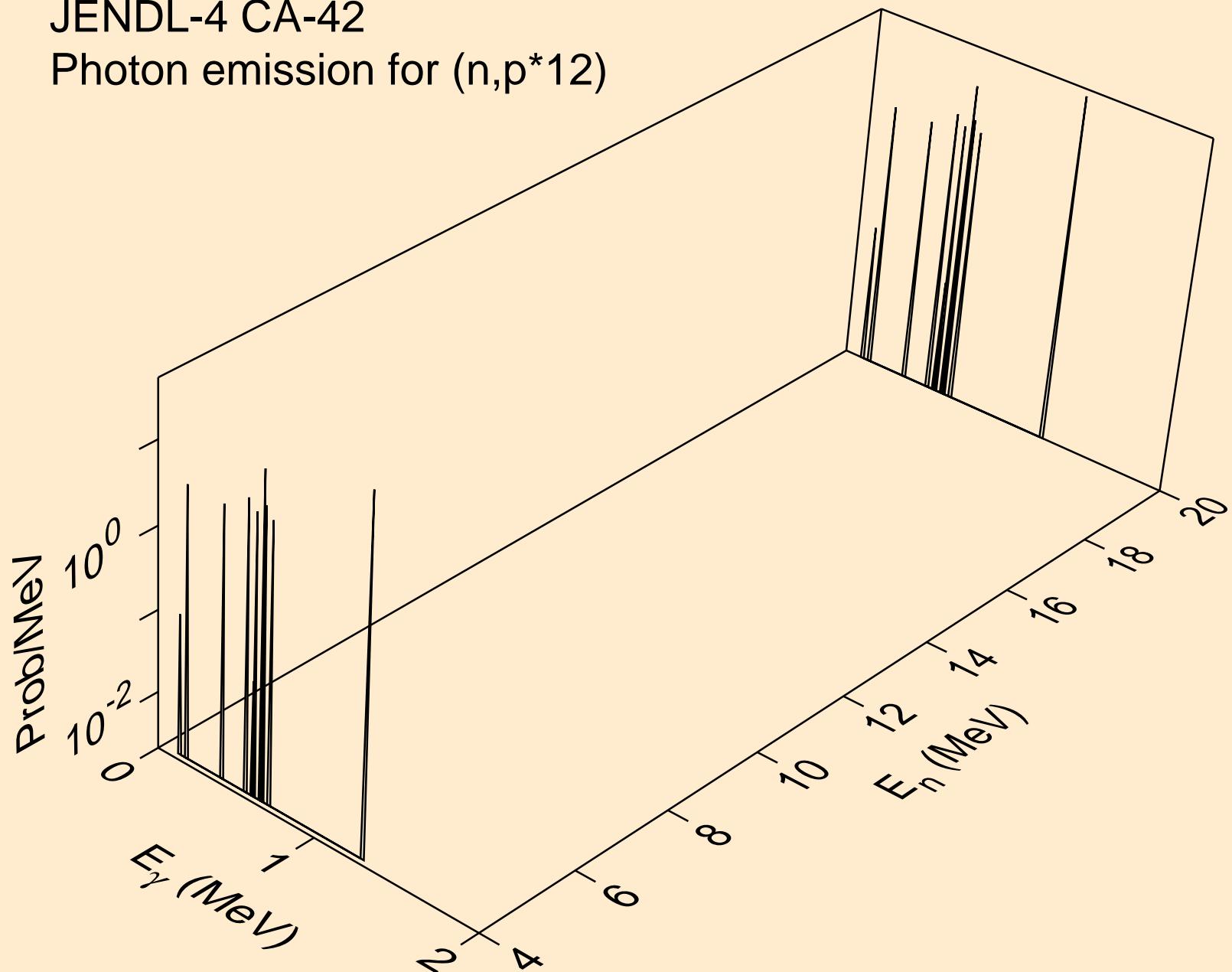


JENDL-4 CA-42

Photon emission for  $(n,p^{*}11)$

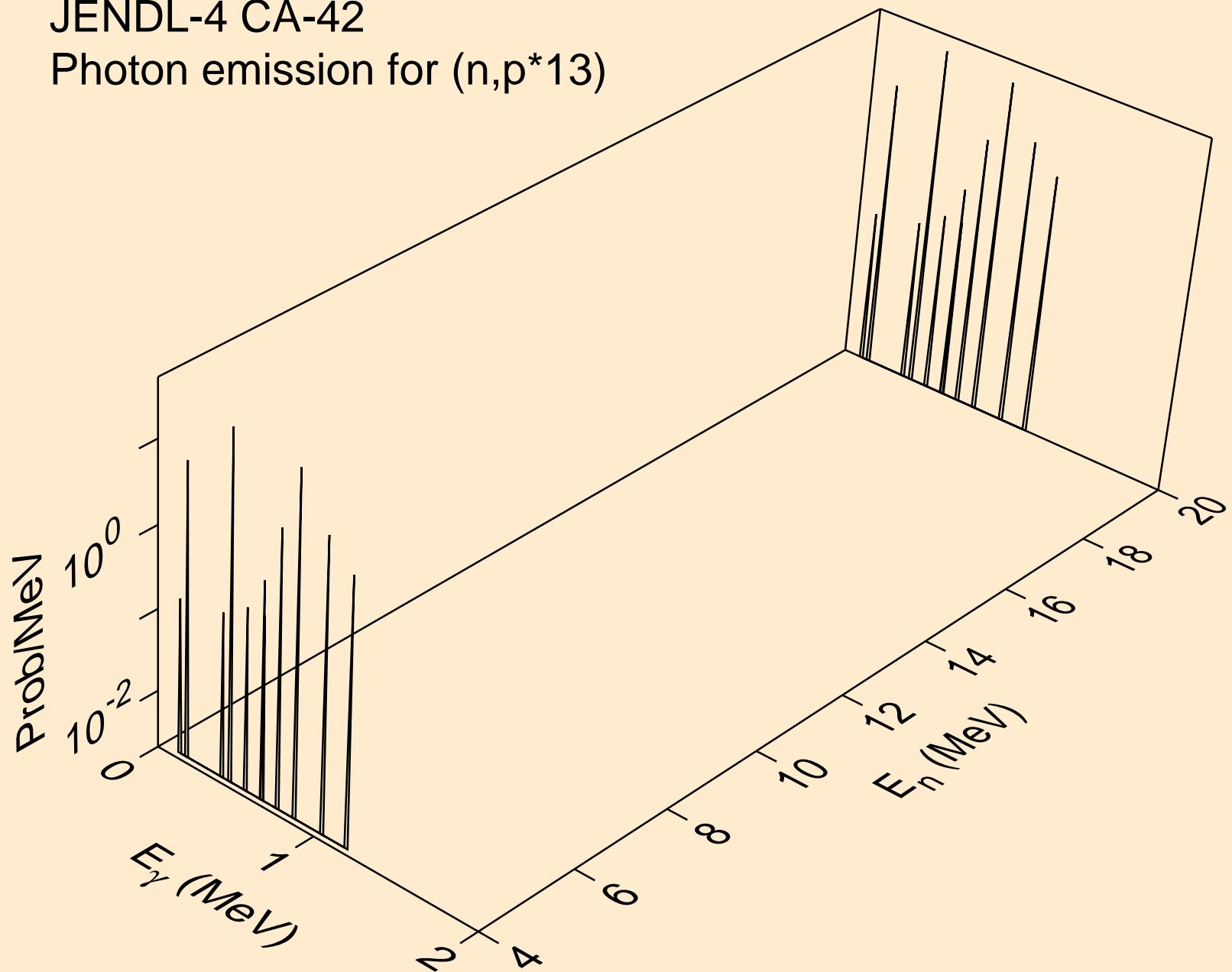


JENDL-4 CA-42  
Photon emission for  $(n,p^*12)$



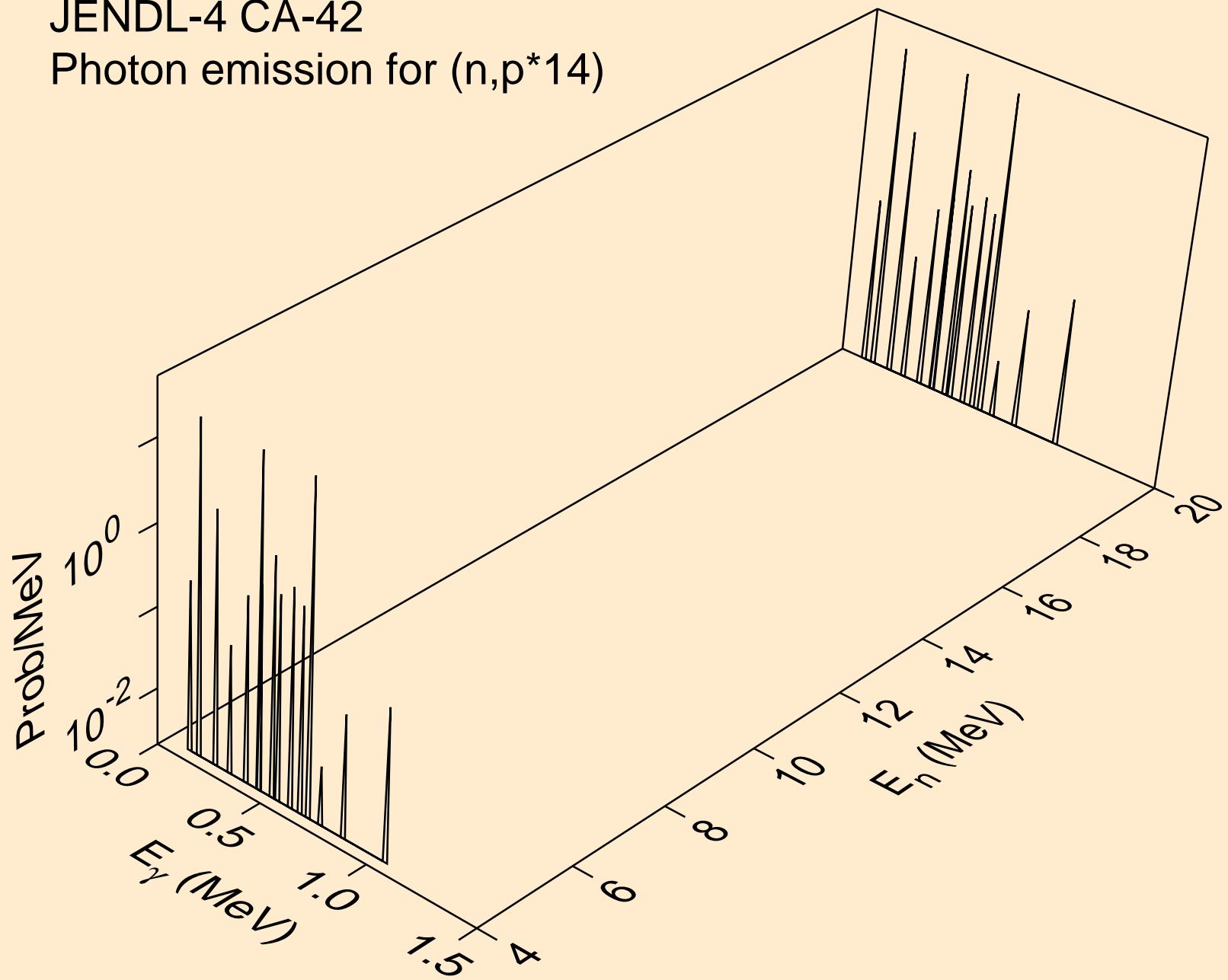
JENDL-4 CA-42

Photon emission for (n,p\*13)

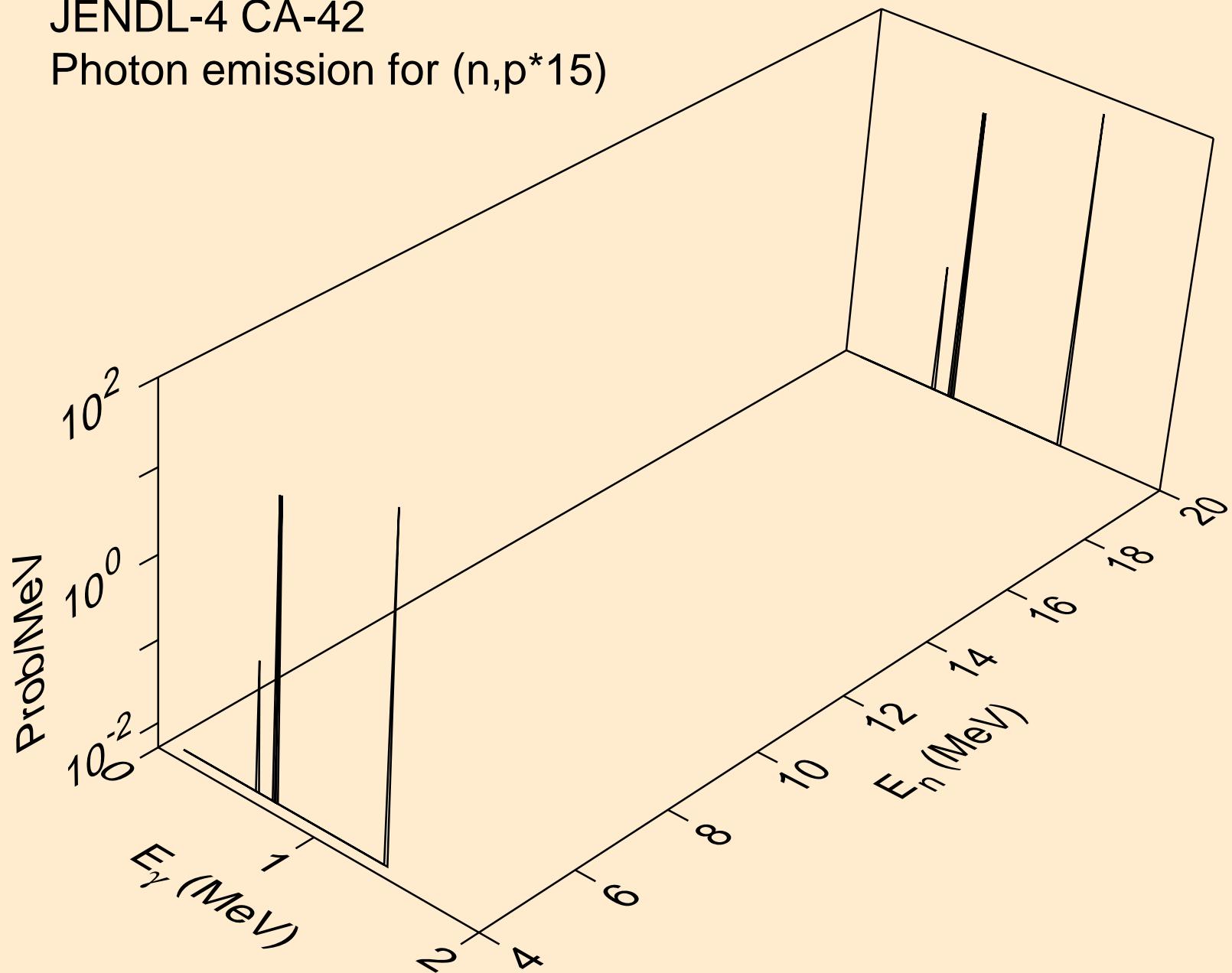


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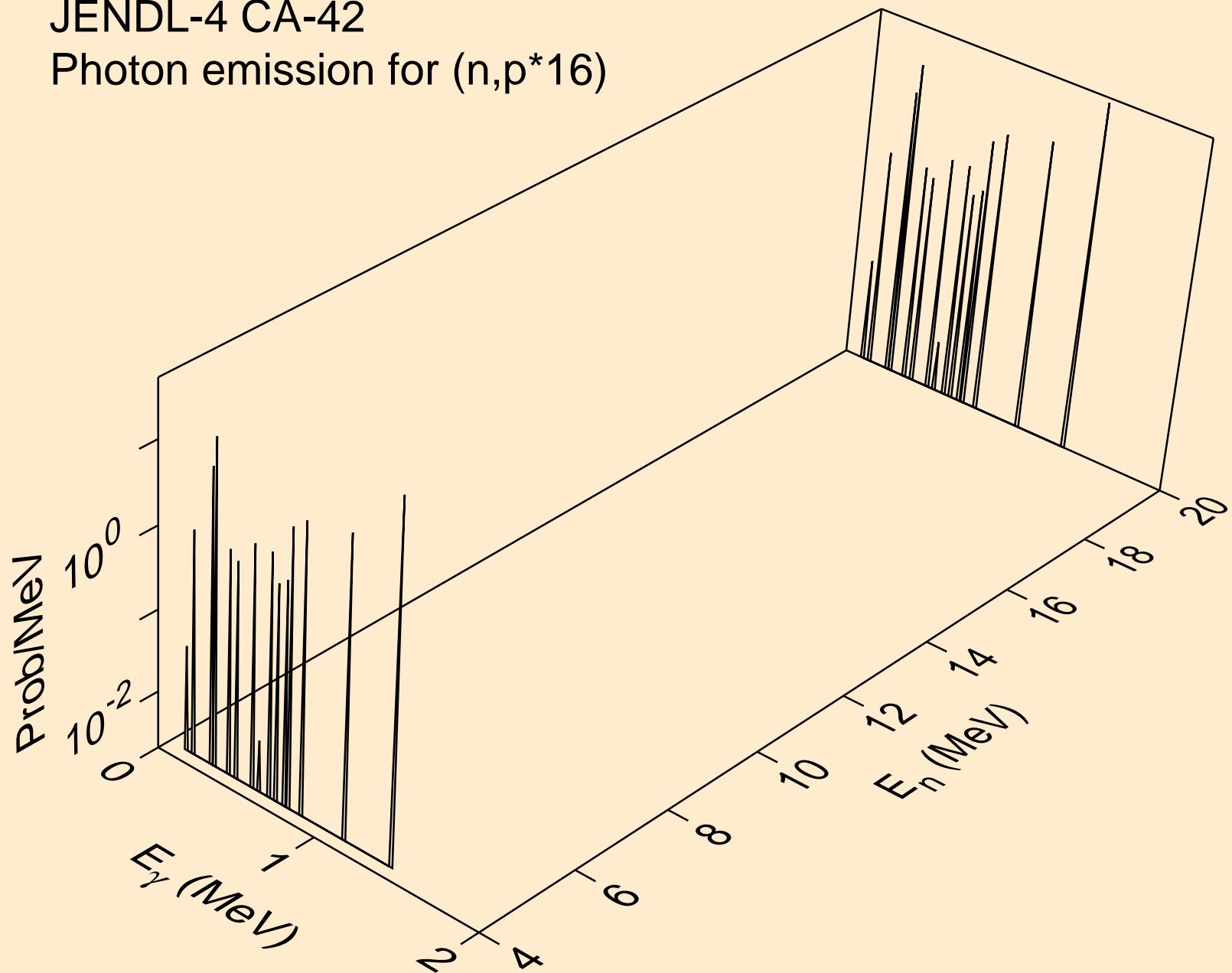
Photon emission for  $(n,p^{*}14)$



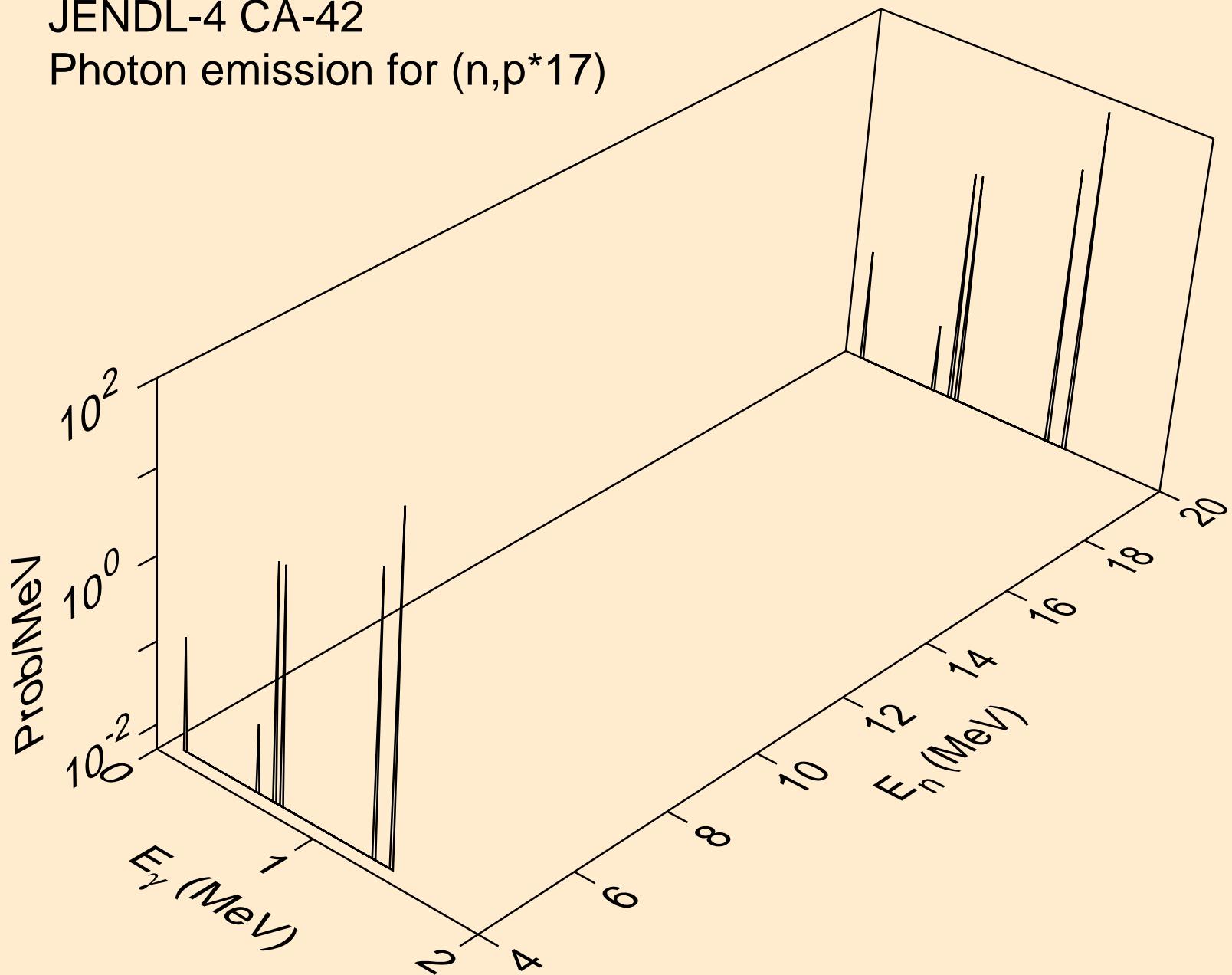
JENDL-4 CA-42  
Photon emission for ( $n,p^*15$ )



JENDL-4 CA-42  
Photon emission for  $(n,p^*16)$

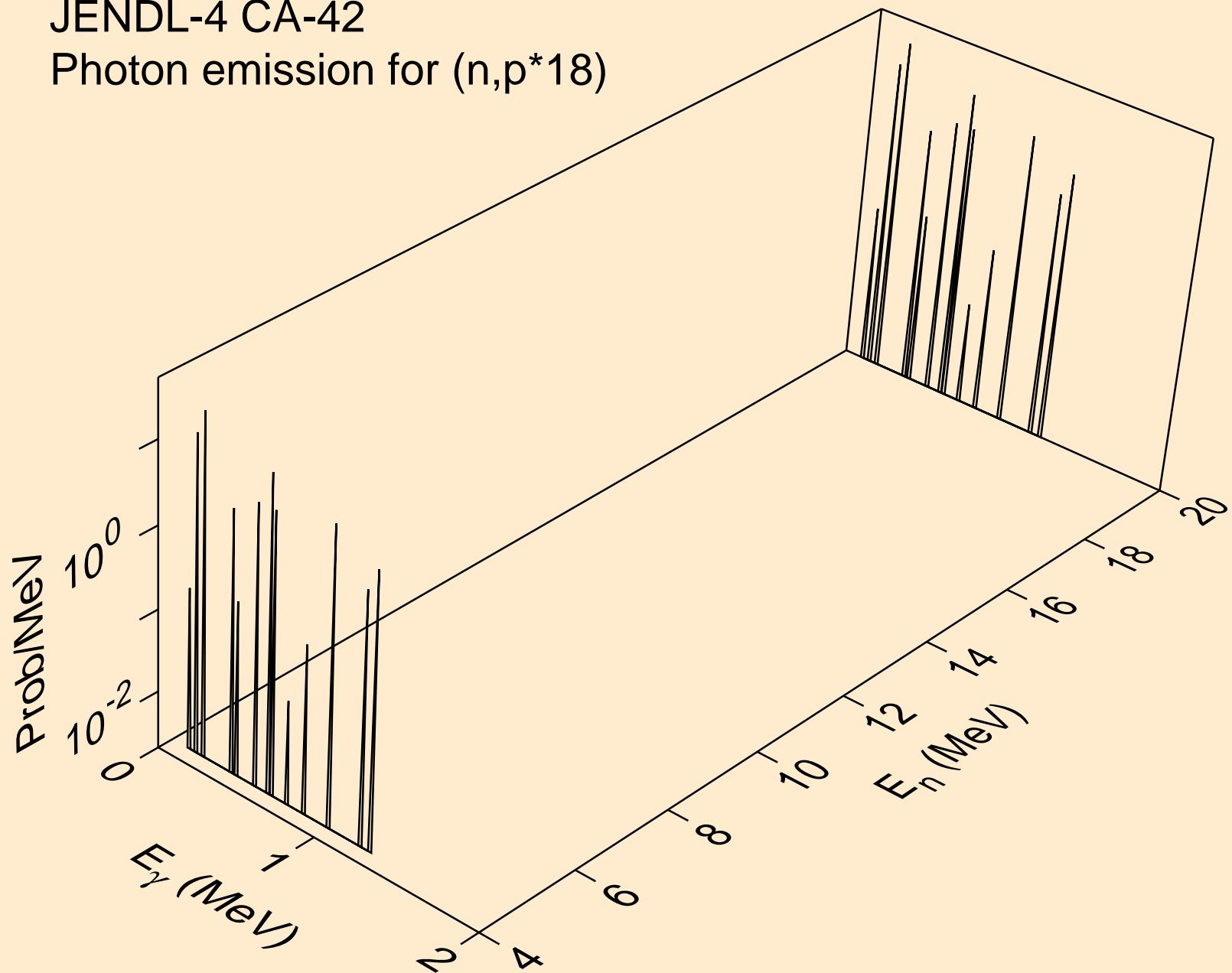


JENDL-4 CA-42  
Photon emission for  $(n,p^*17)$

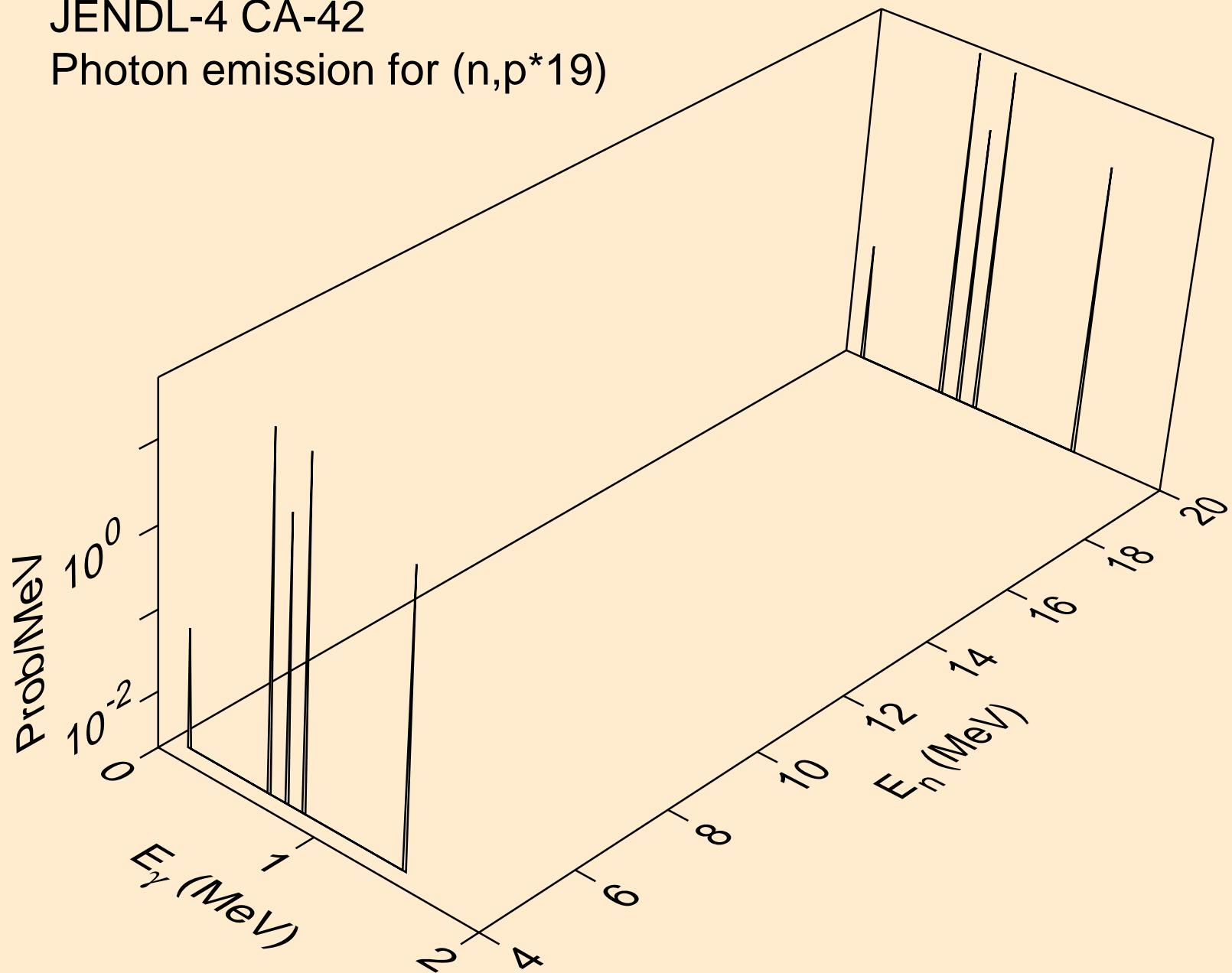


JENDL-4 CA-42

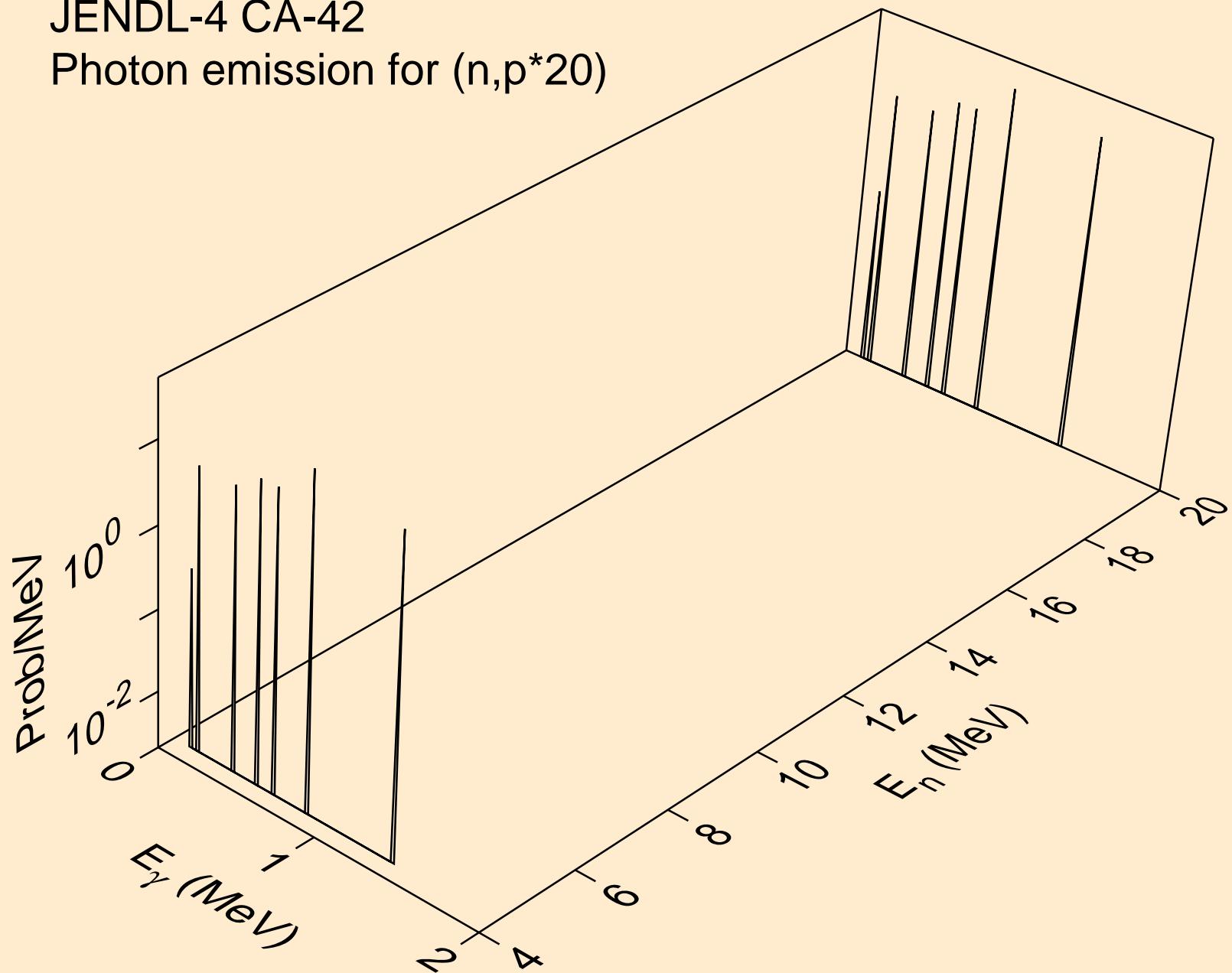
Photon emission for  $(n,p^{*}18)$



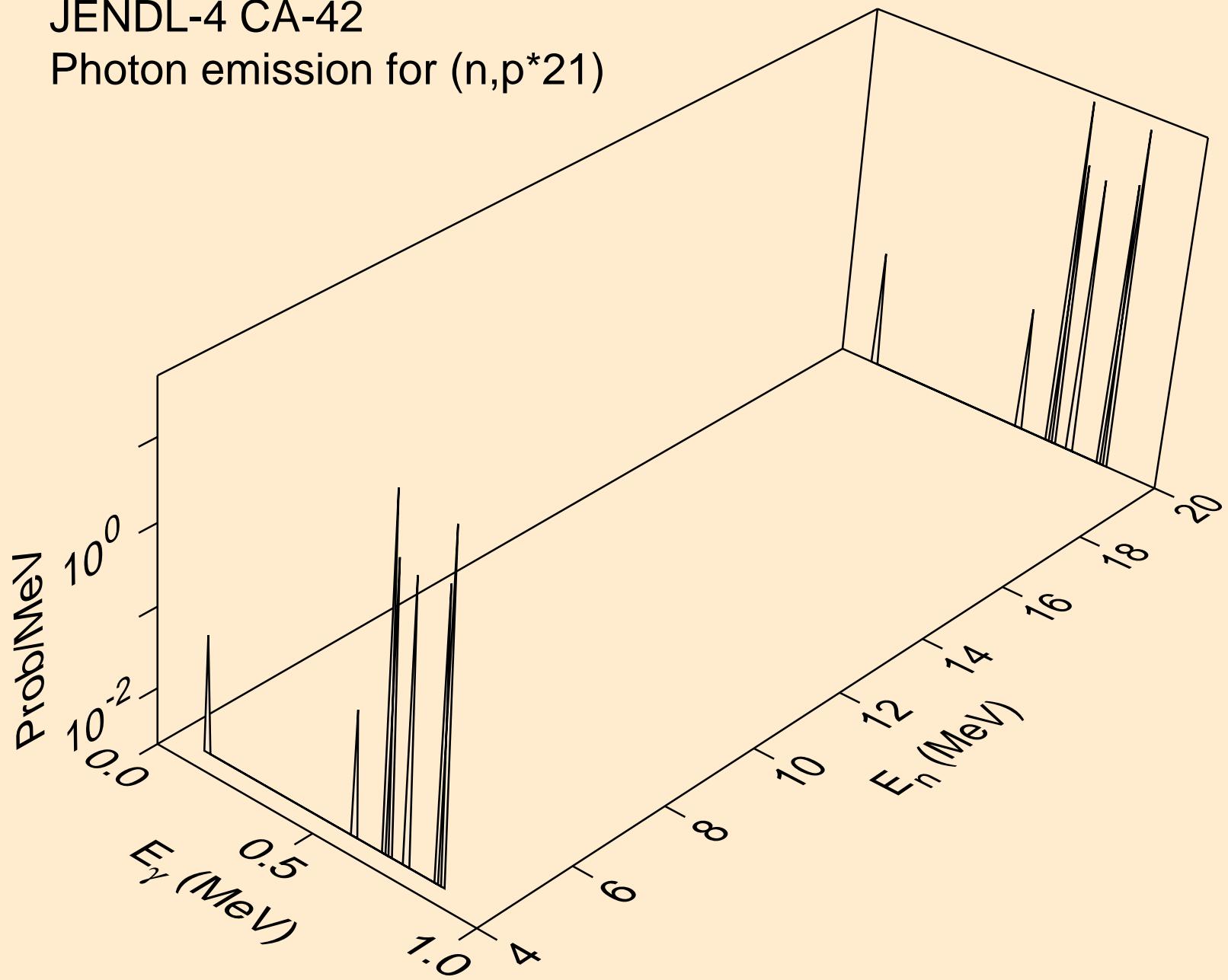
JENDL-4 CA-42  
Photon emission for (n,p\*19)



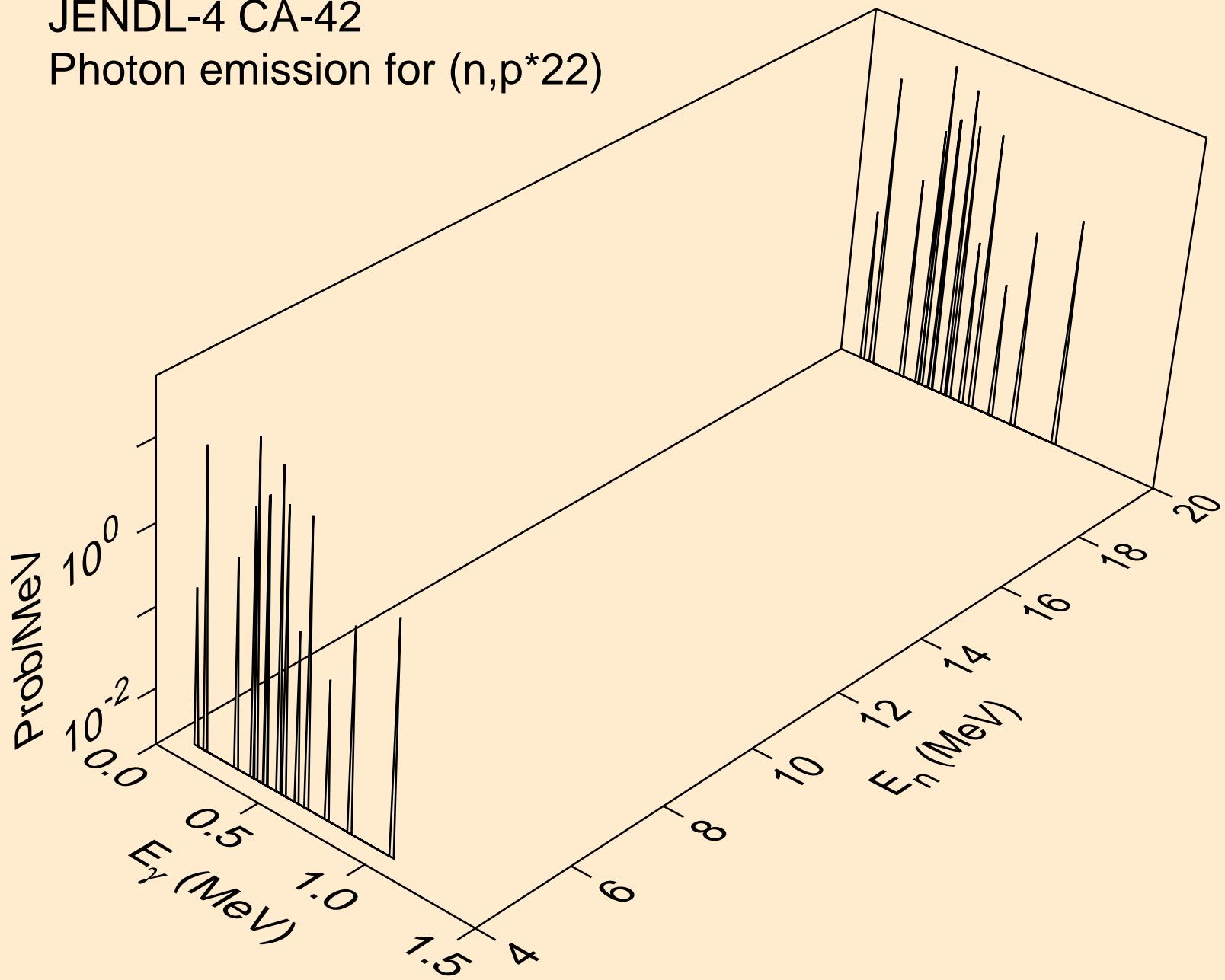
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Photon emission for (n,p\*20)



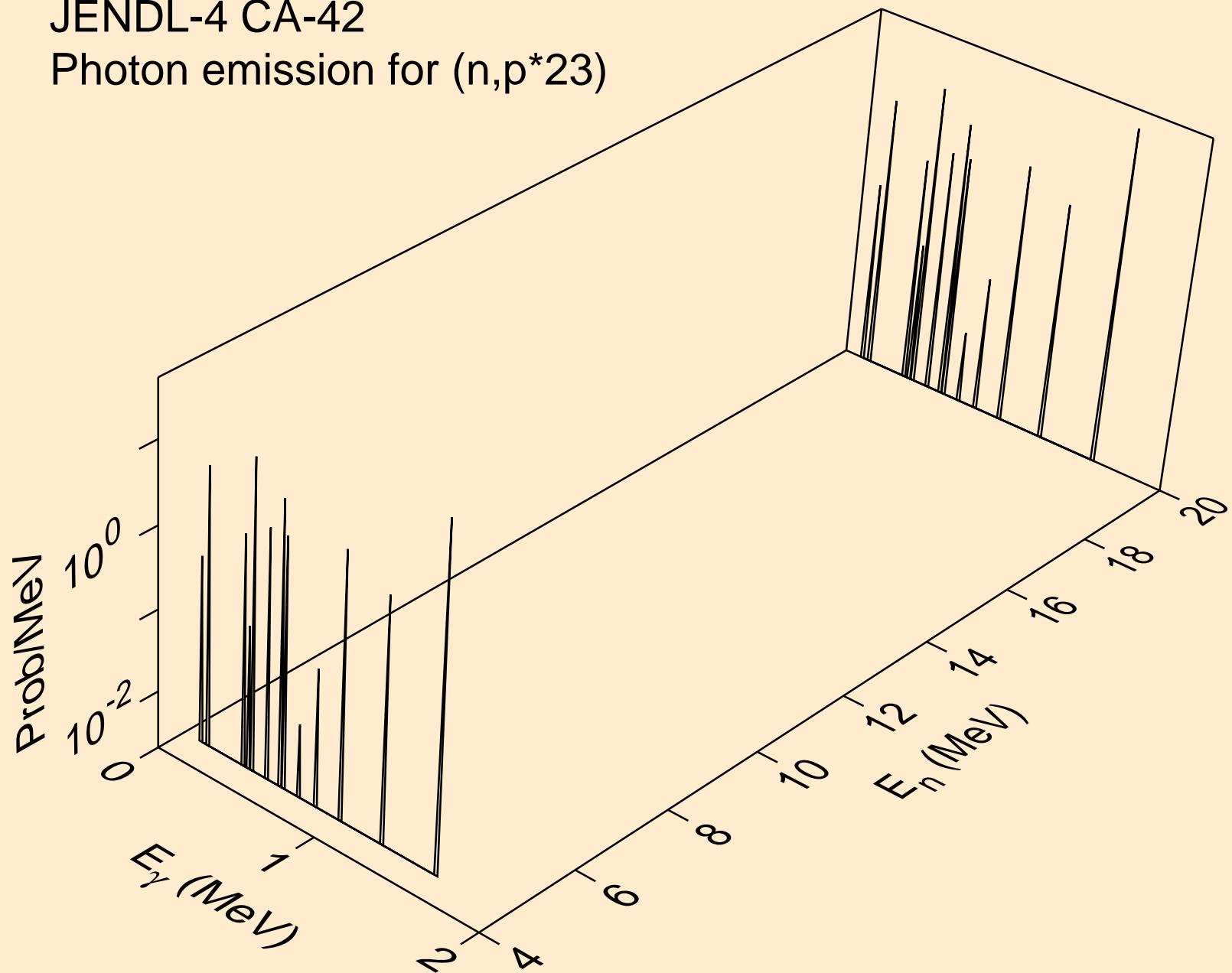
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Photon emission for (n,p\*21)



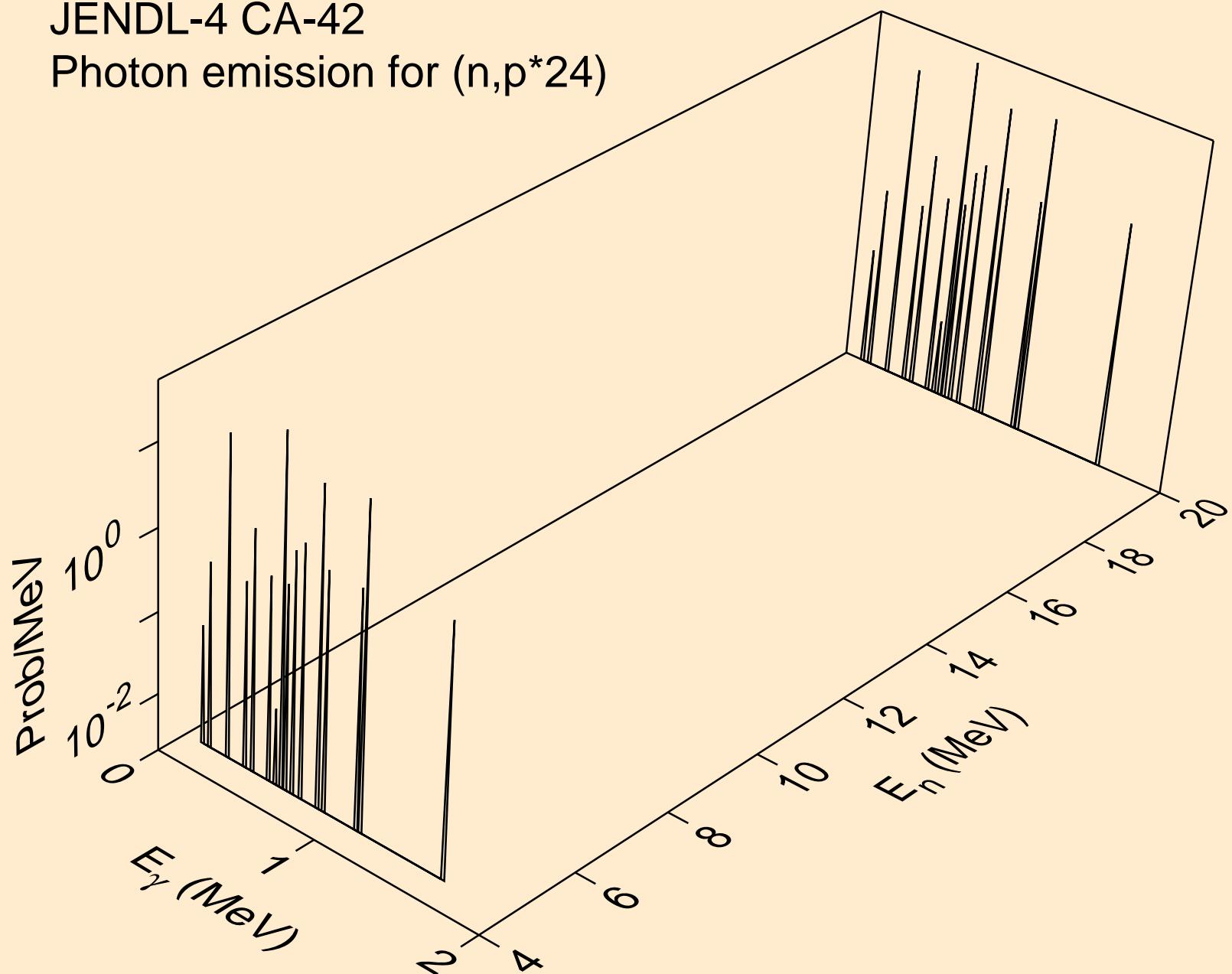
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Photon emission for ( $n,p^*22$ )



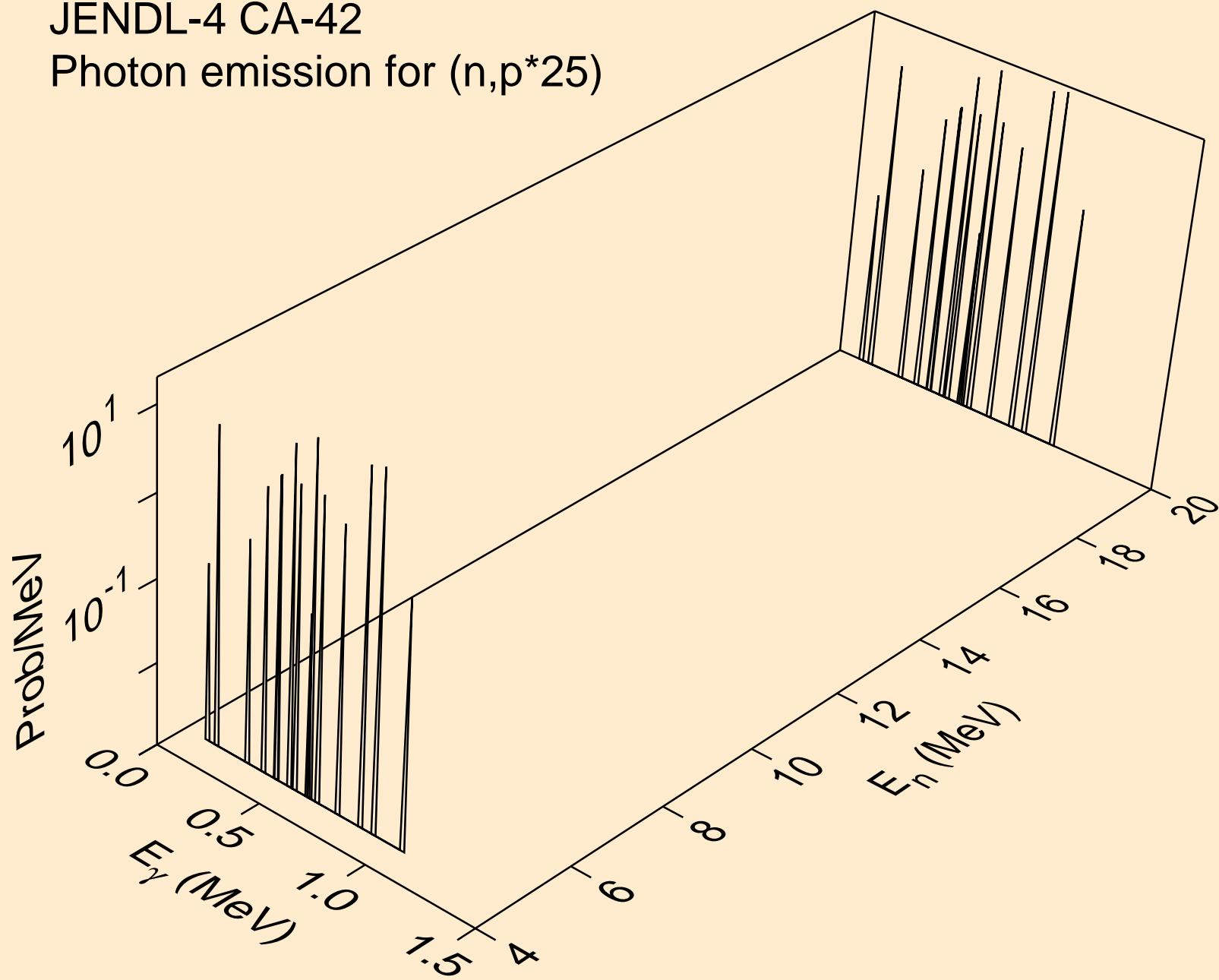
JENDL-4 CA-42  
Photon emission for ( $n,p^*23$ )



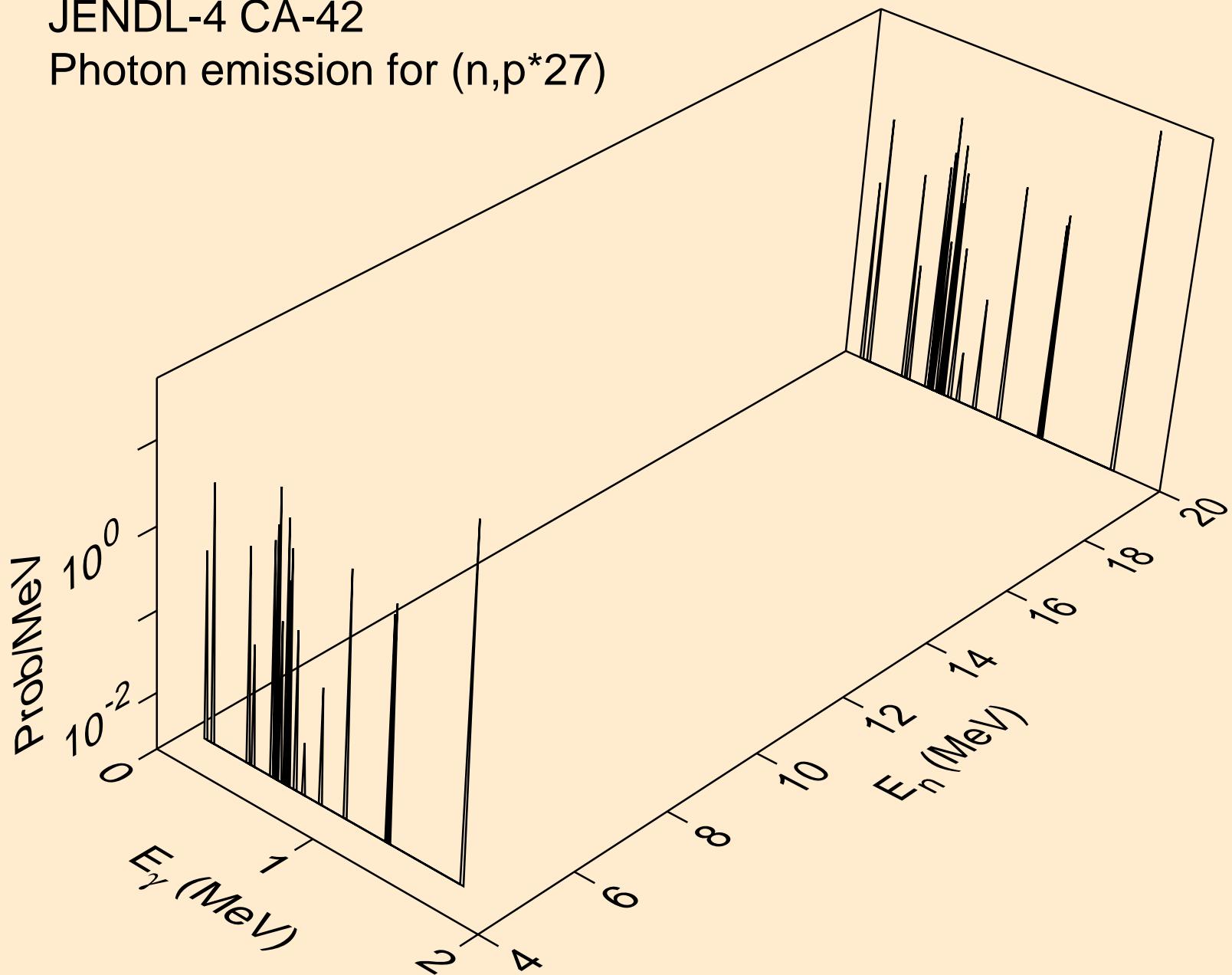
JENDL-4 CA-42  
Photon emission for ( $n,p^*24$ )



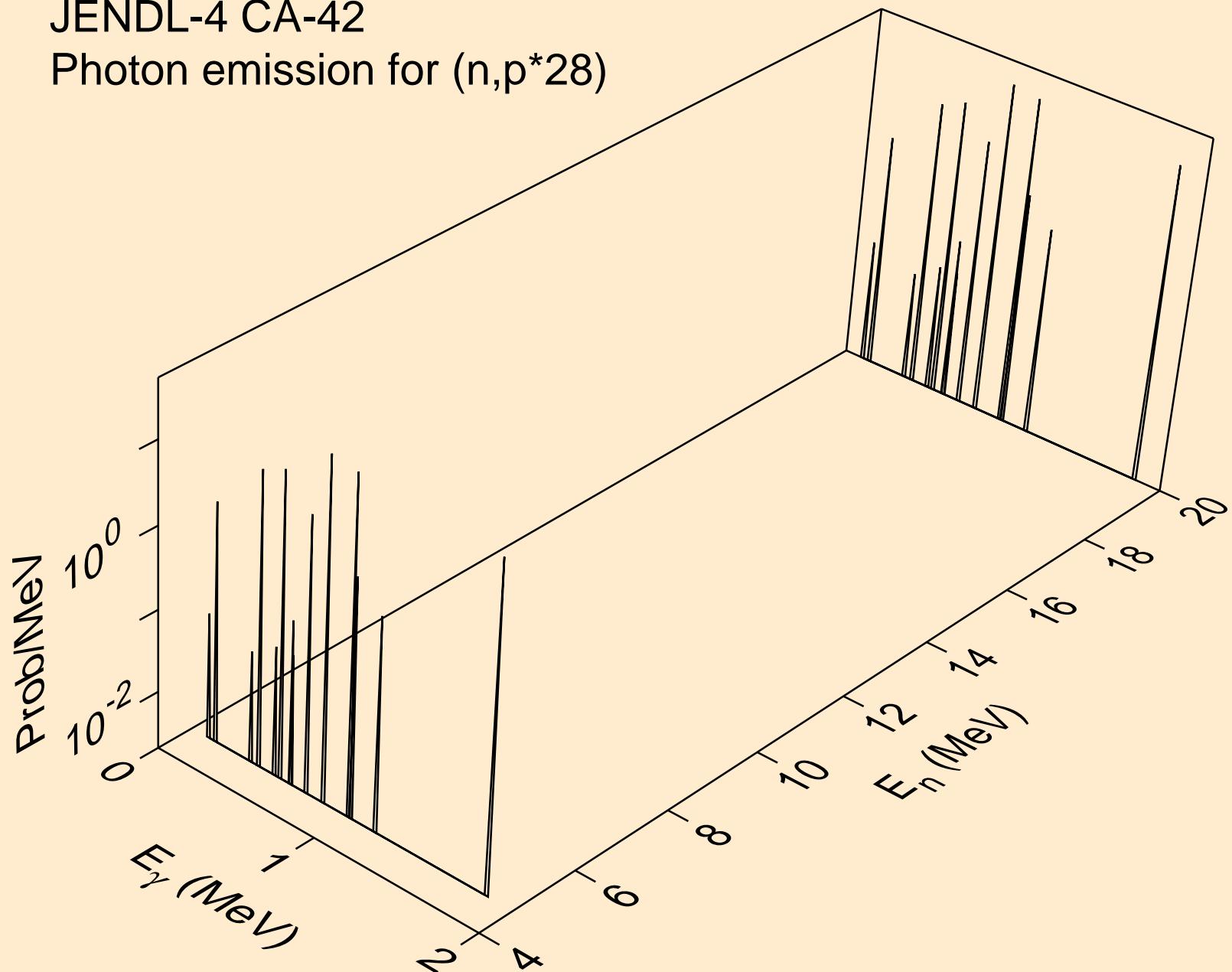
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Photon emission for ( $n,p^*25$ )



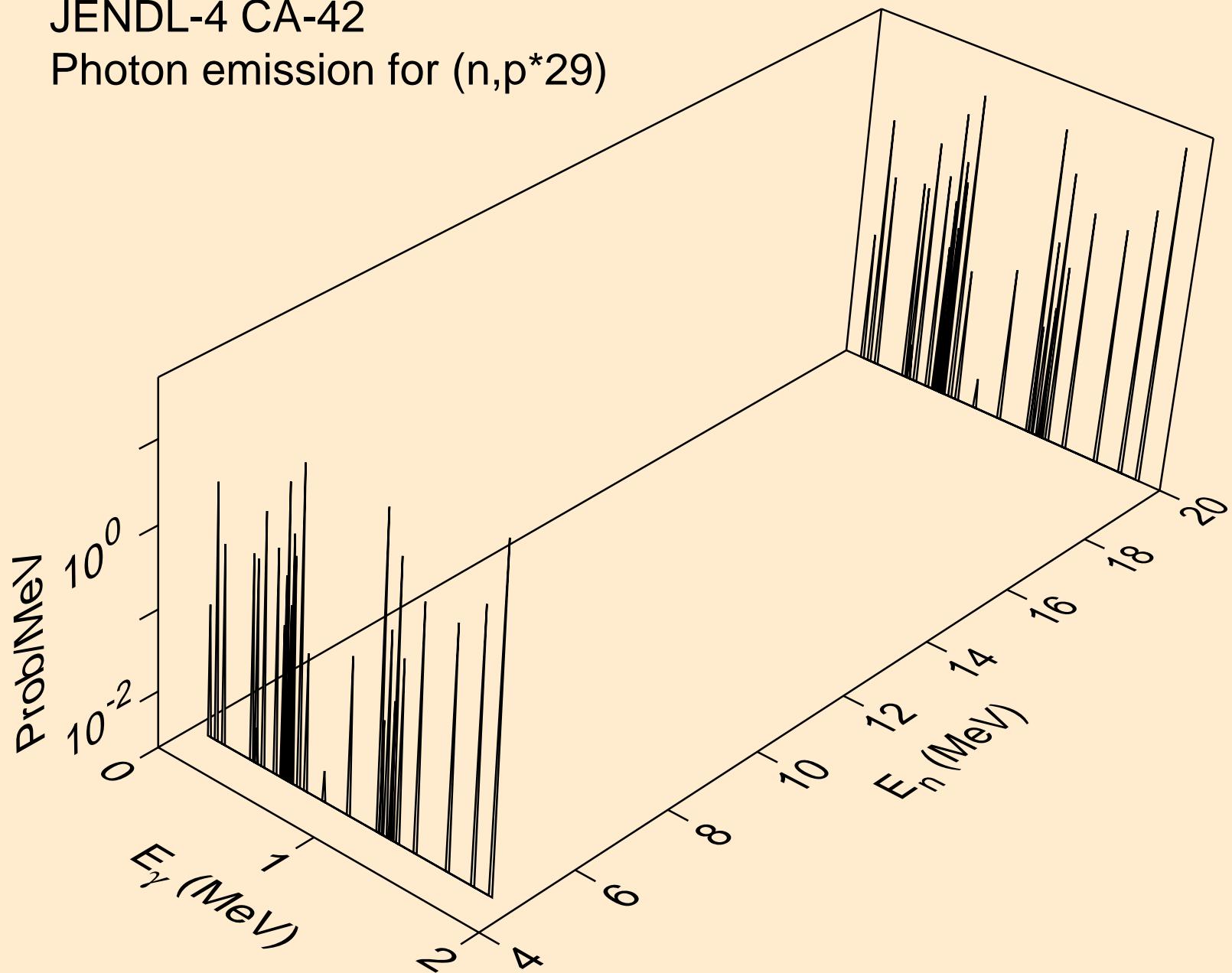
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Photon emission for ( $n,p^*27$ )



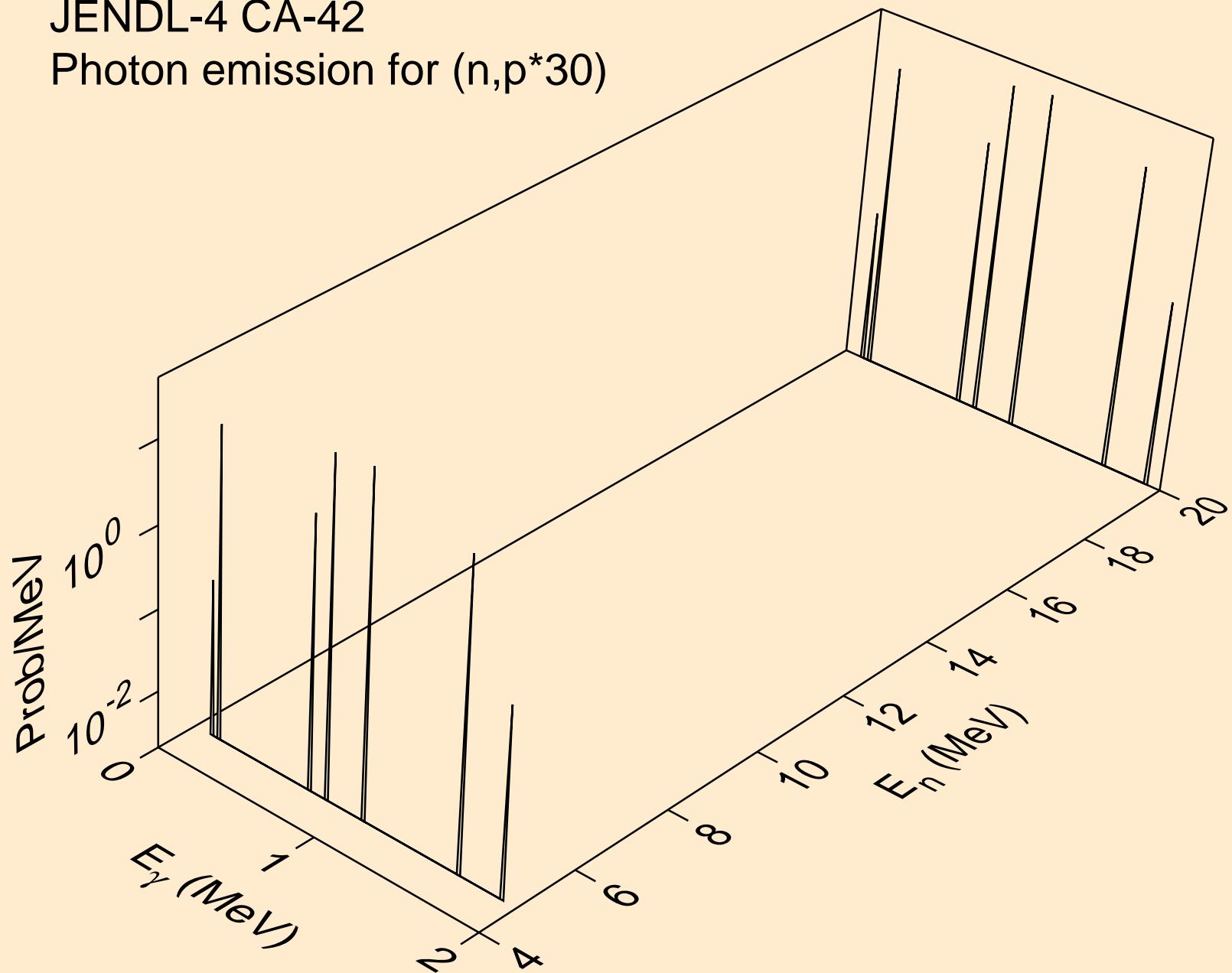
JENDL-4 CA-42  
Photon emission for  $(n,p^*{}^{28})$



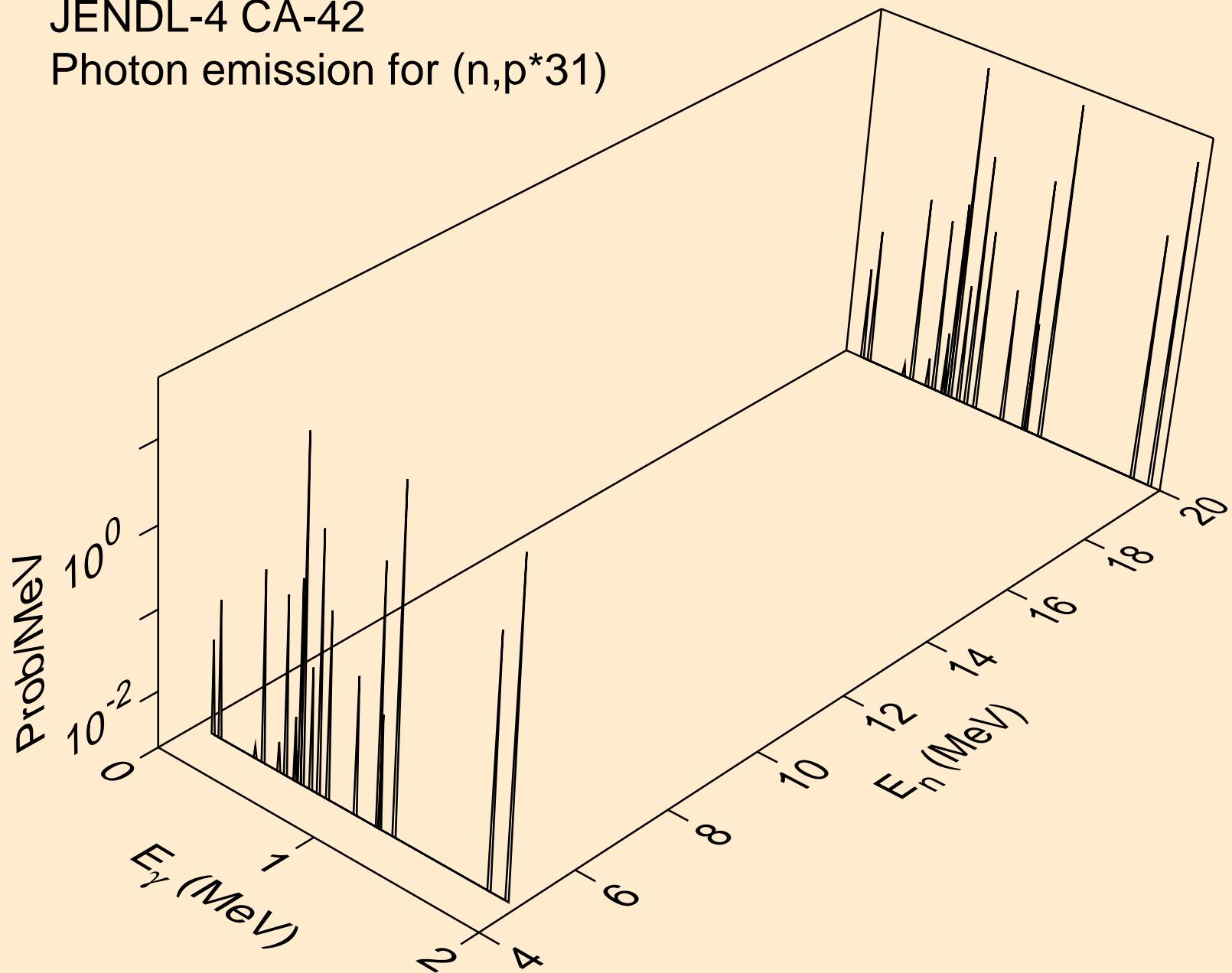
JENDL-4 CA-42  
Photon emission for ( $n,p^*29$ )



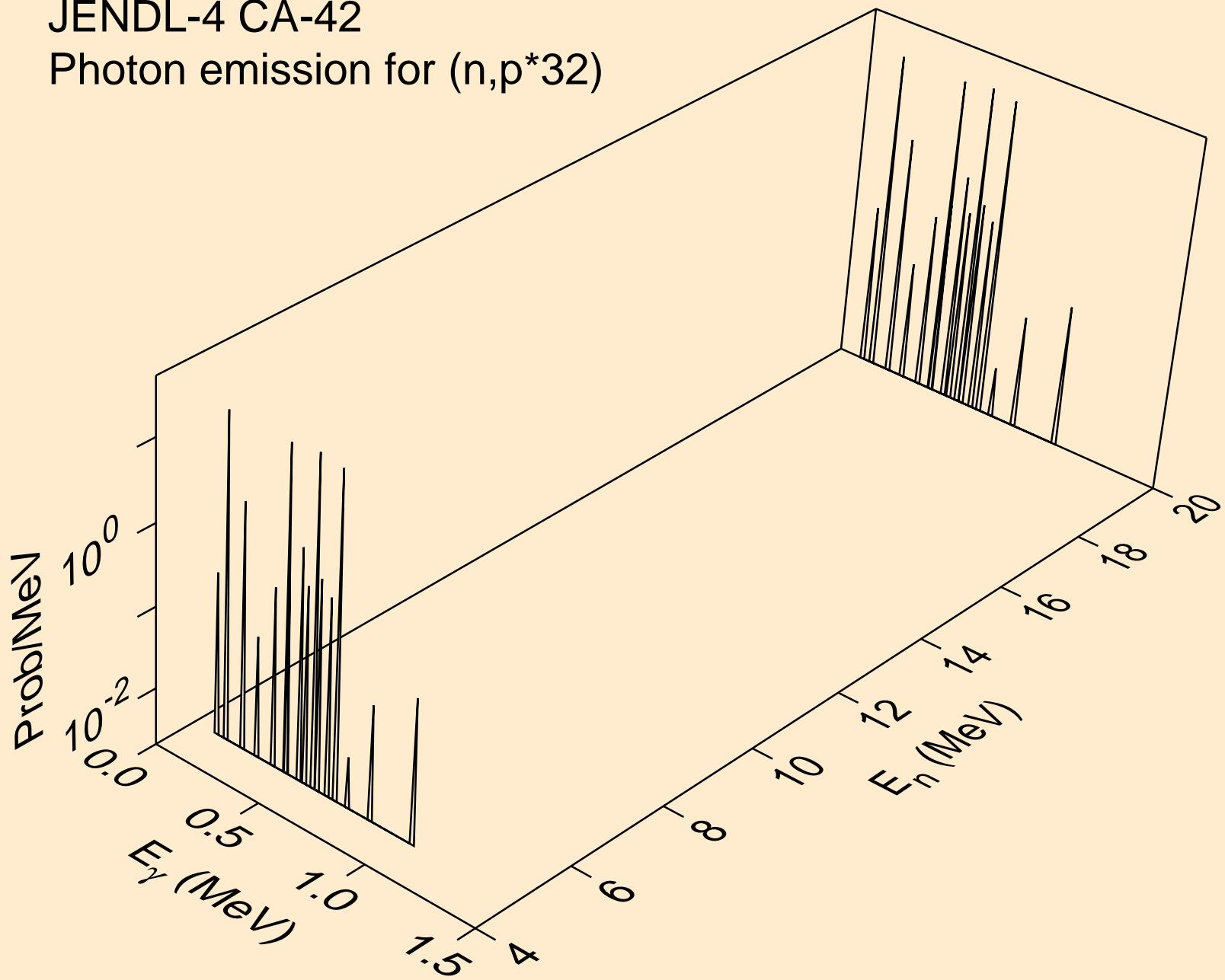
JENDL-4 CA-42  
Photon emission for (n,p\*30)



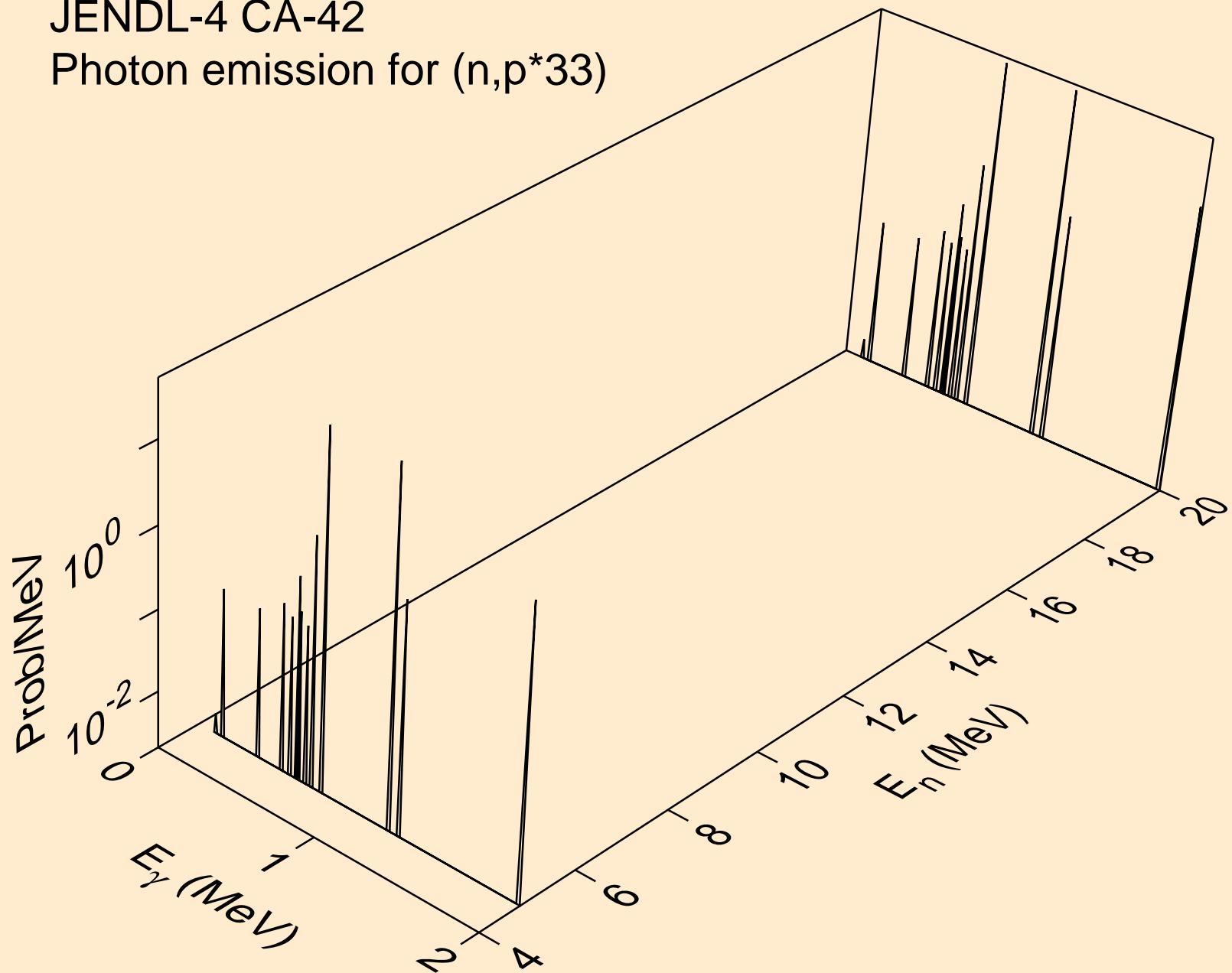
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Photon emission for (n,p\*31)



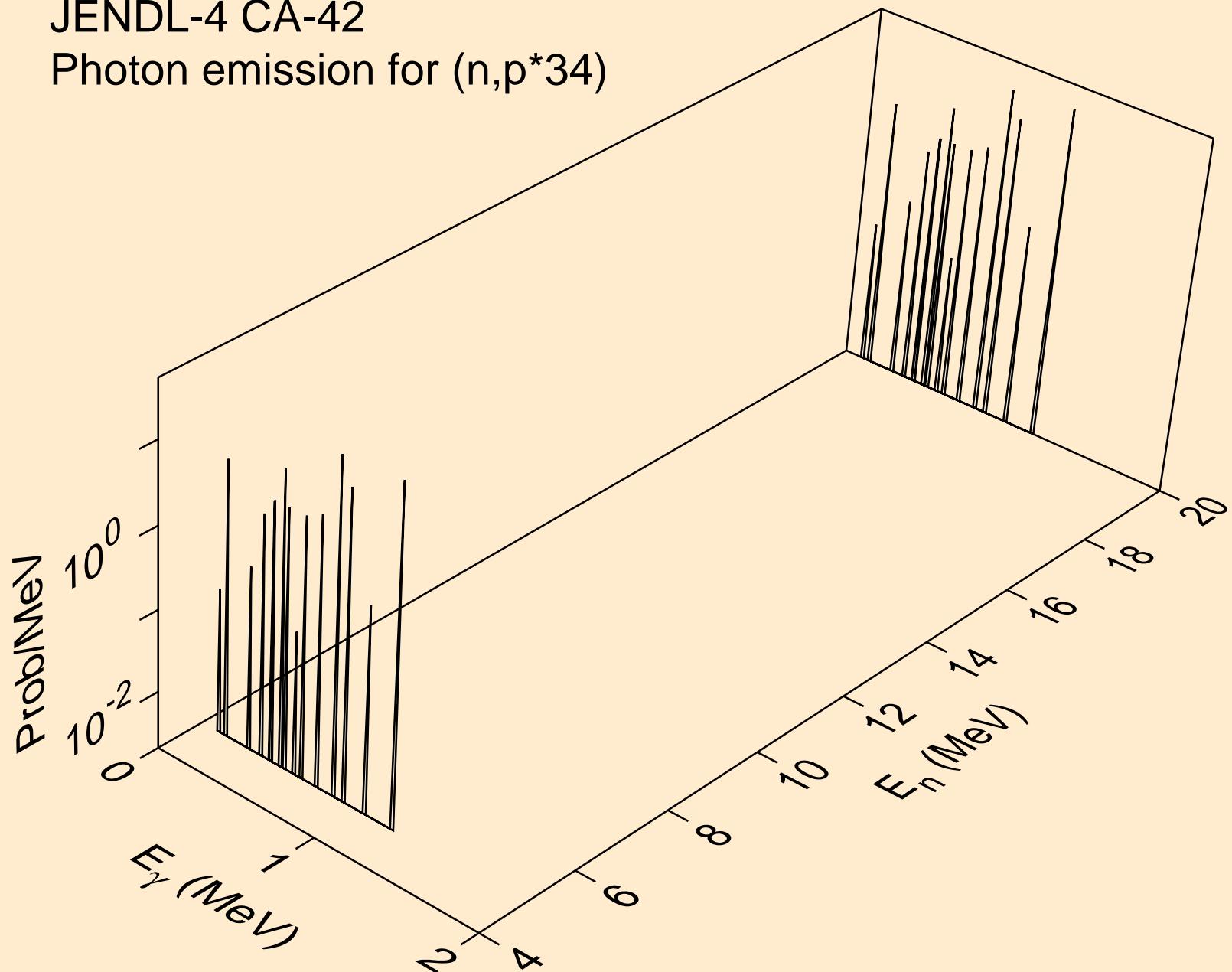
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Photon emission for ( $n,p^*32$ )



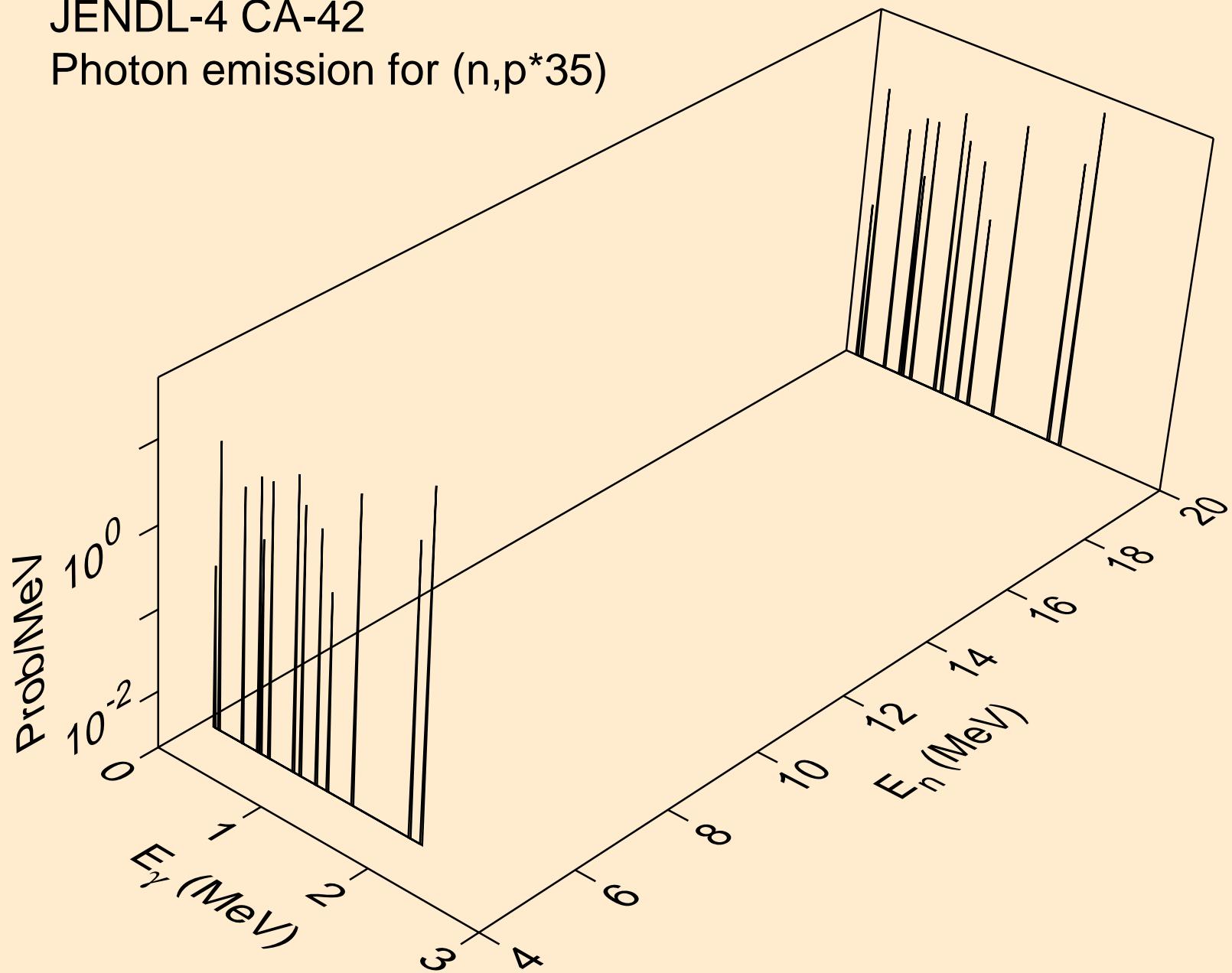
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Photon emission for ( $n,p^*33$ )



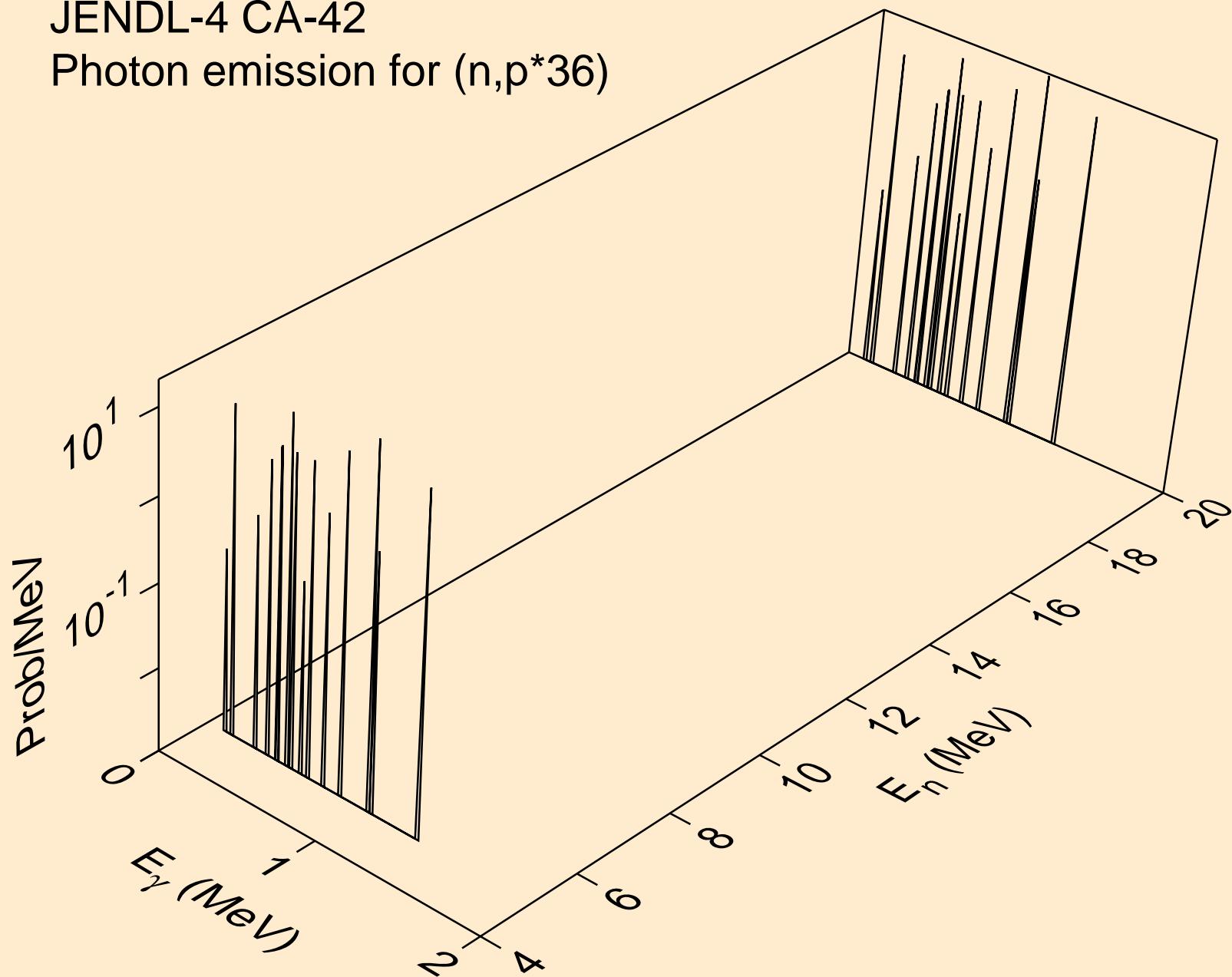
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Photon emission for ( $n,p^*34$ )



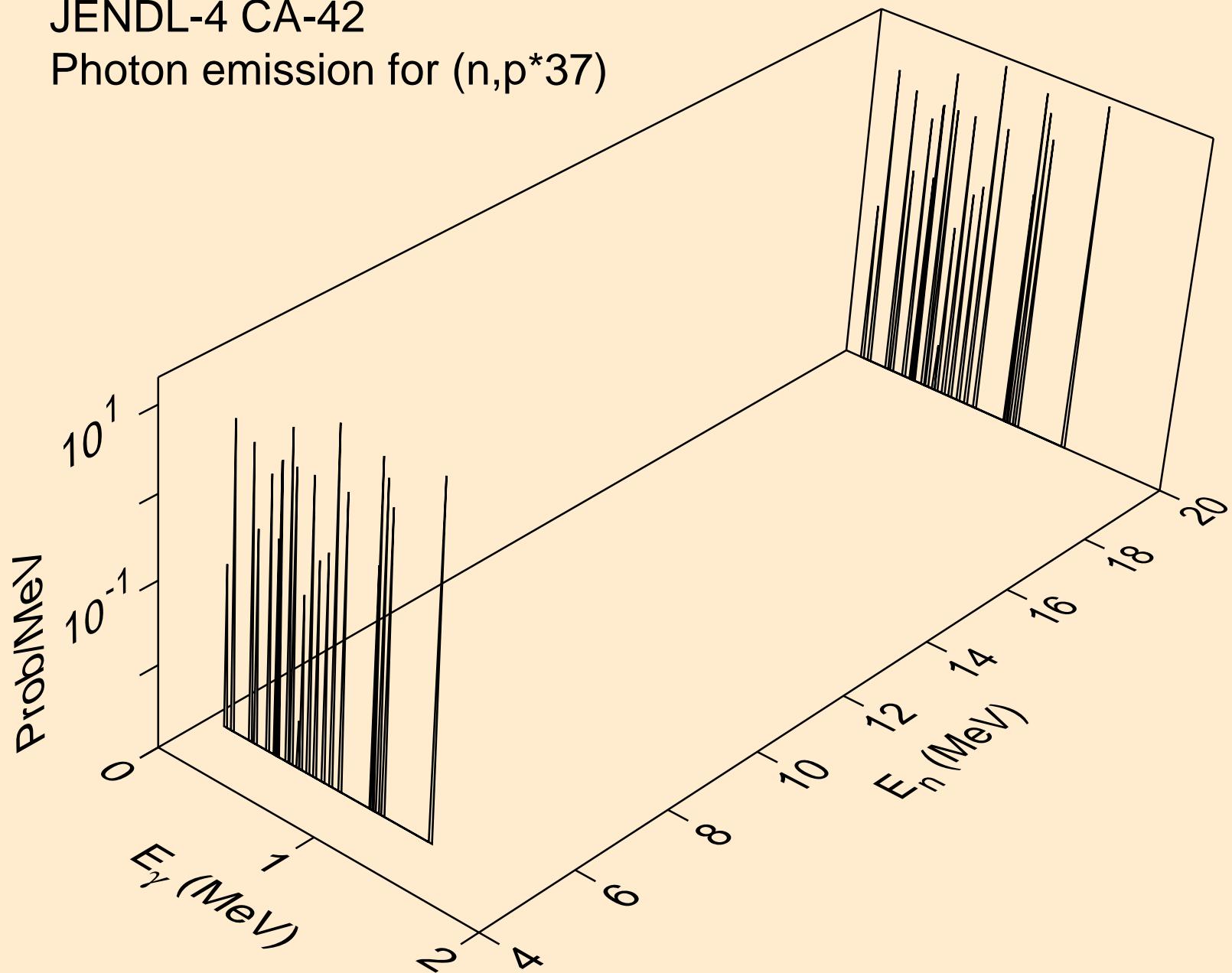
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Photon emission for ( $n,p^*35$ )



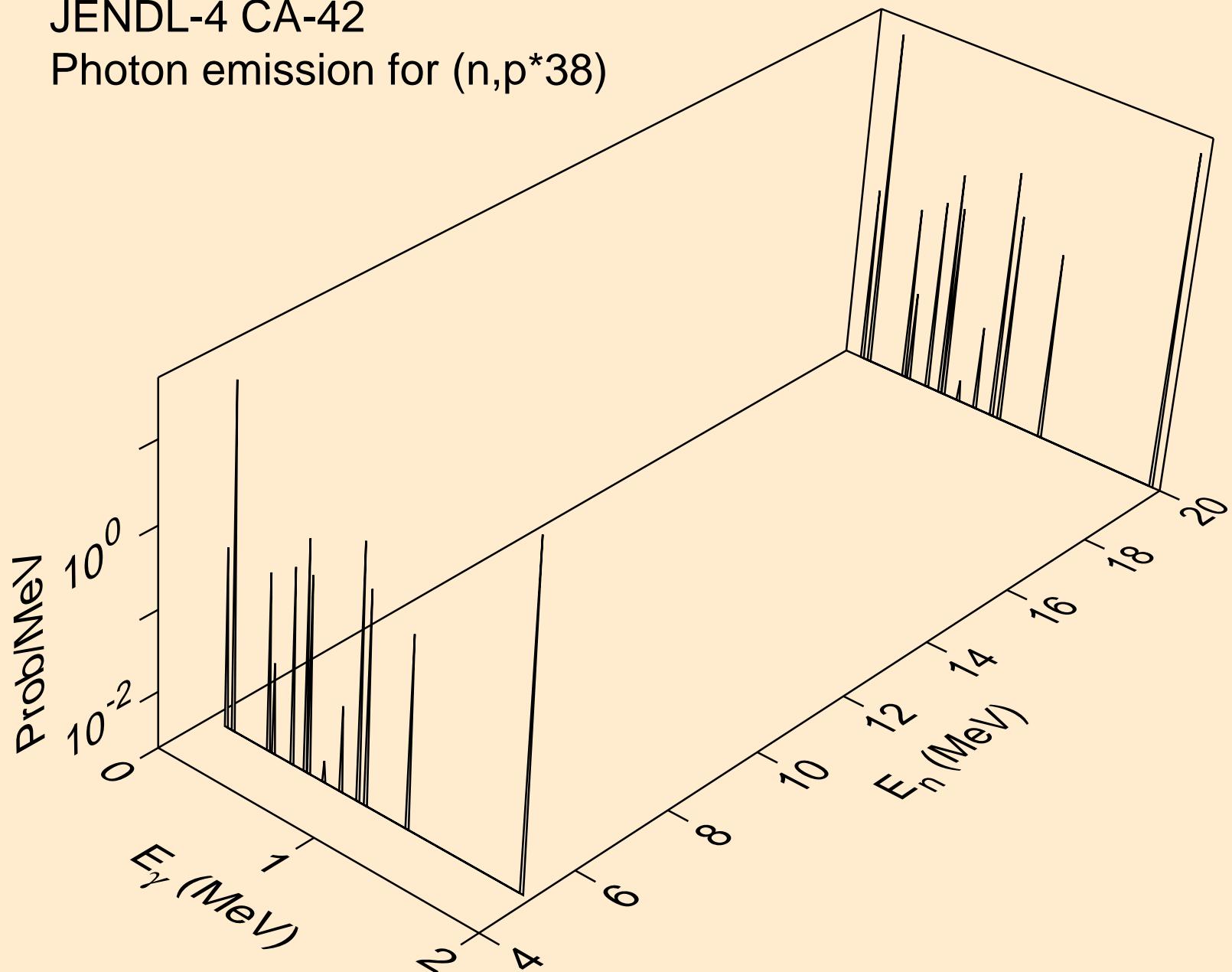
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Photon emission for  $(n,p^*36)$



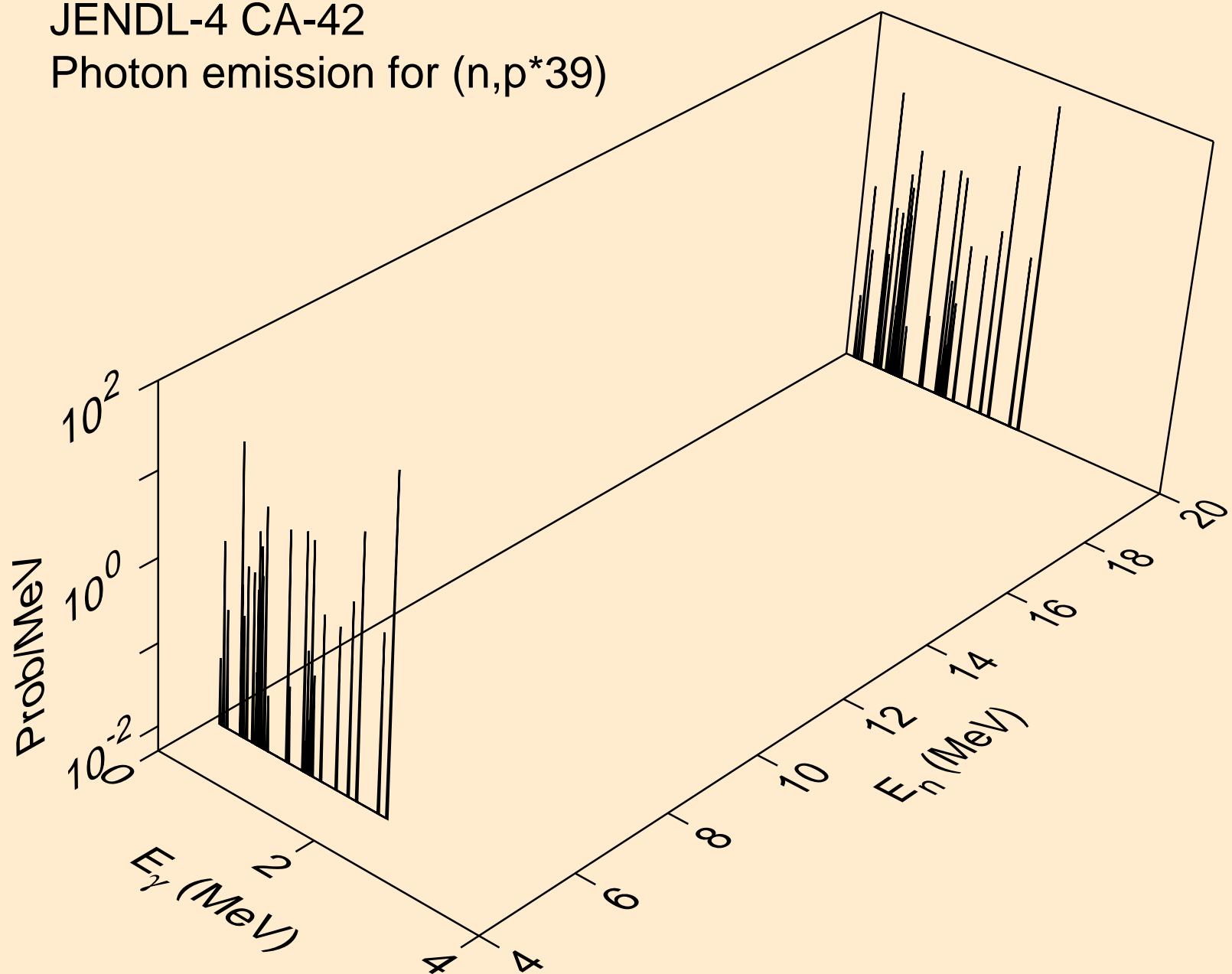
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Photon emission for ( $n,p^*37$ )



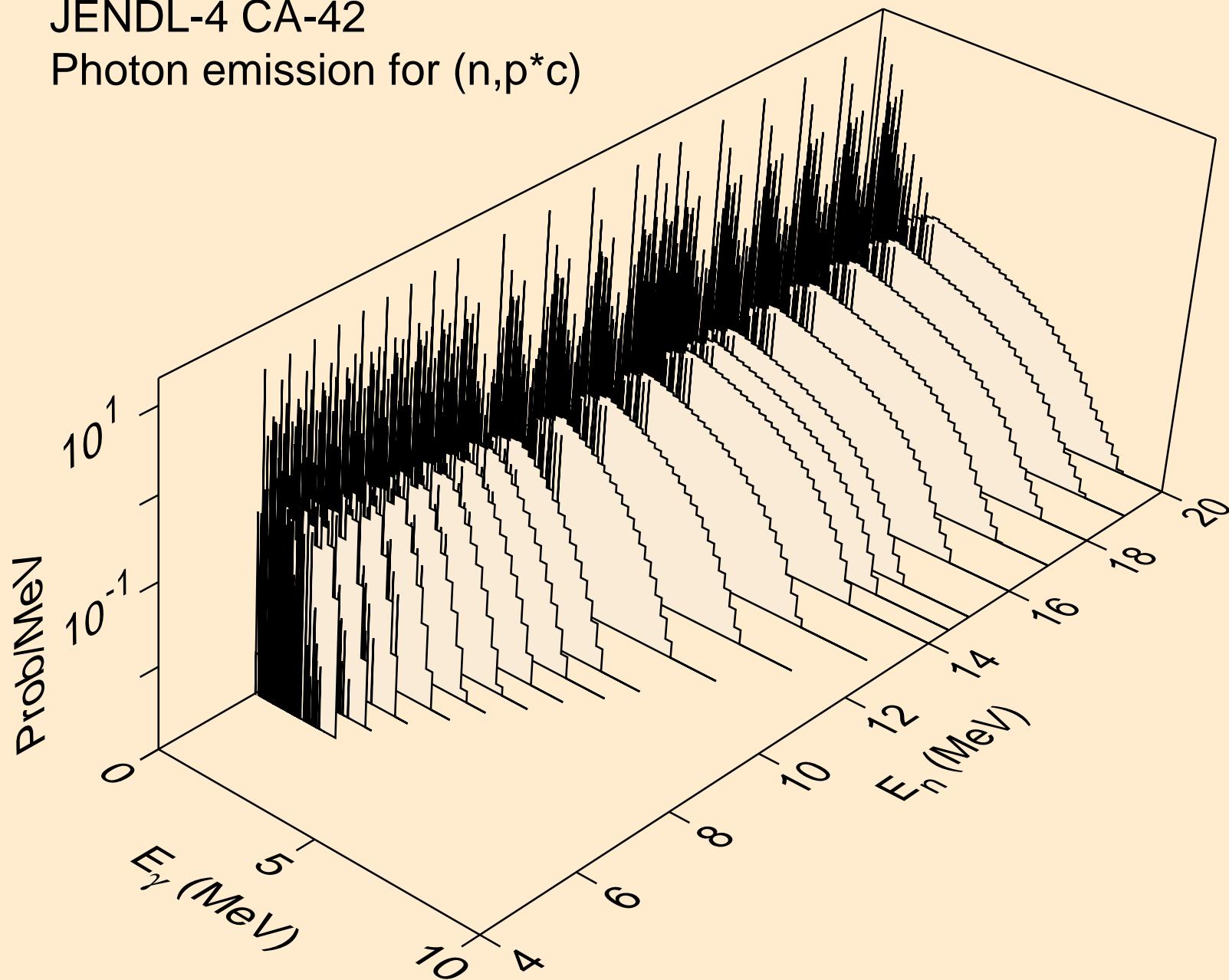
JENDL-4 CA-42  
Photon emission for ( $n,p^*38$ )



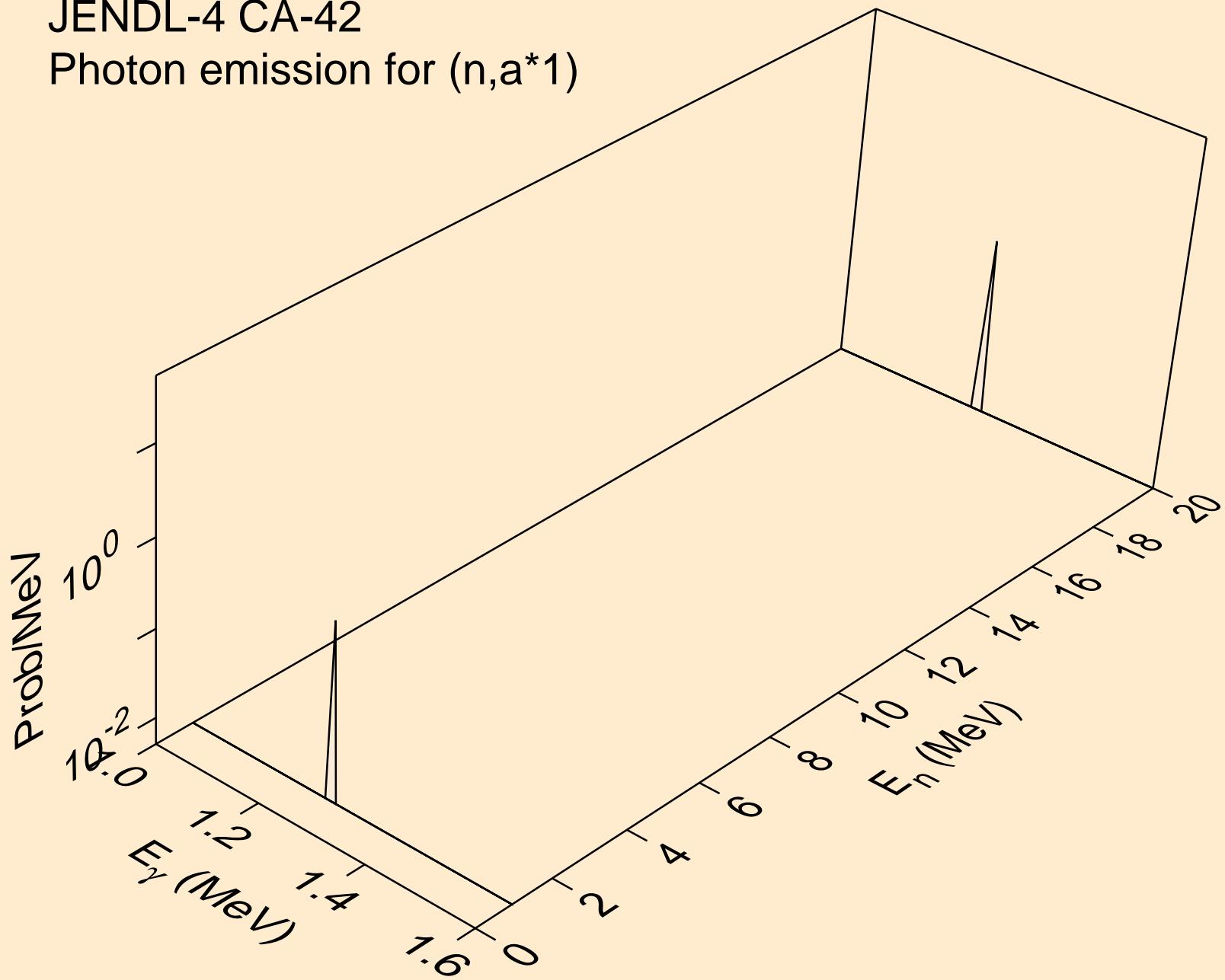
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Photon emission for ( $n,p^*39$ )



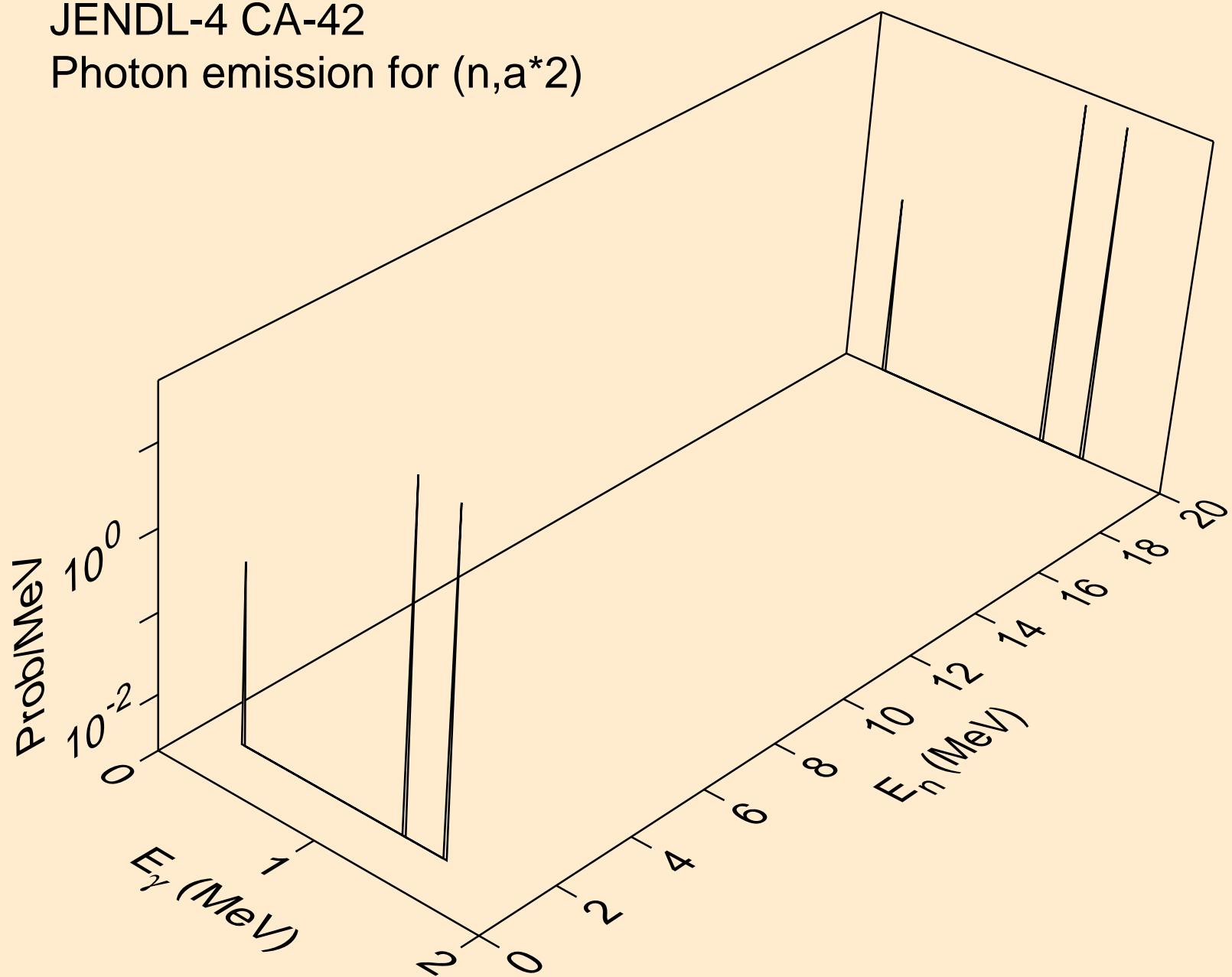
JENDL-4 CA-42  
Photon emission for  $(n,p^*c)$



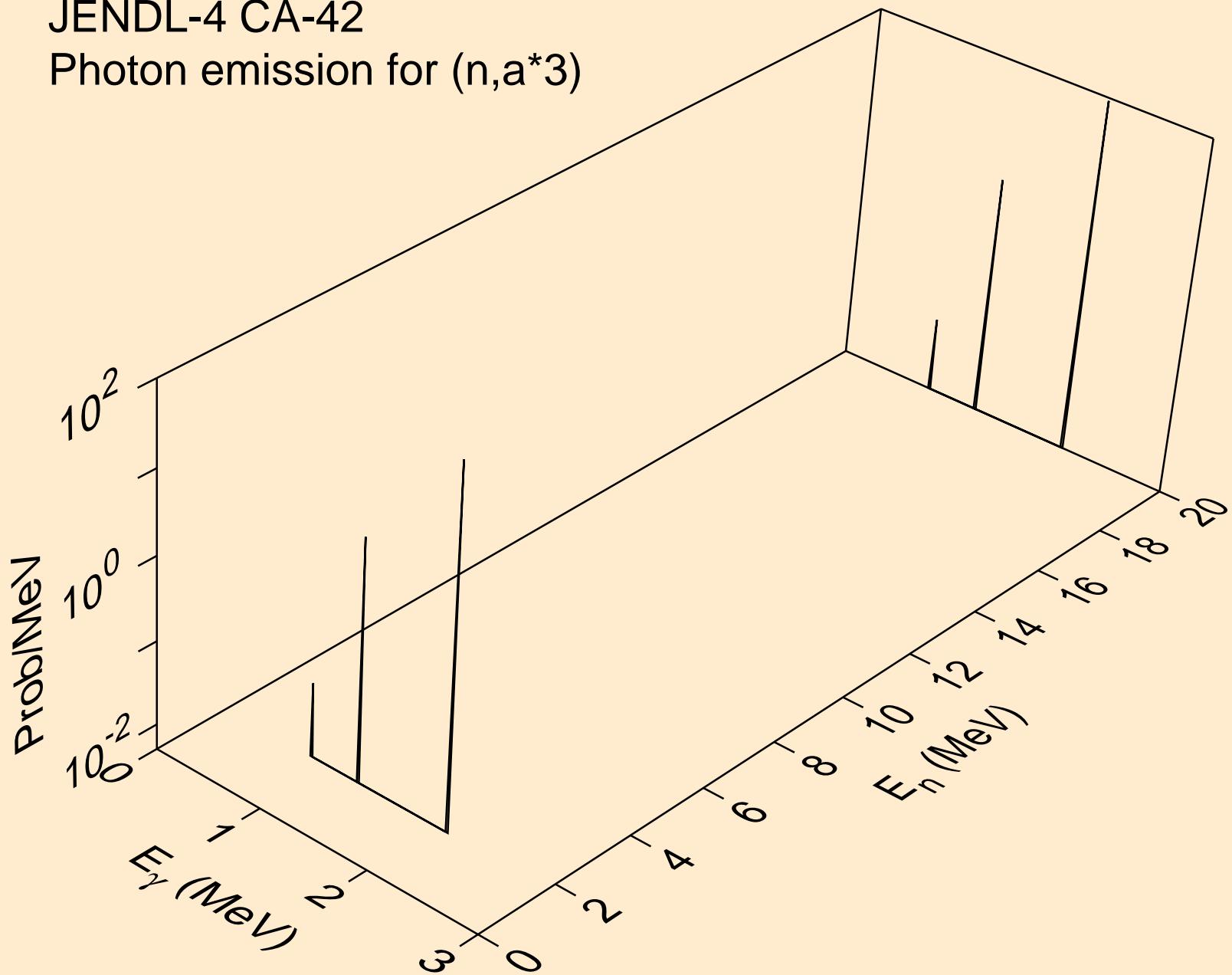
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Photon emission for  $(n, a^* 1)$



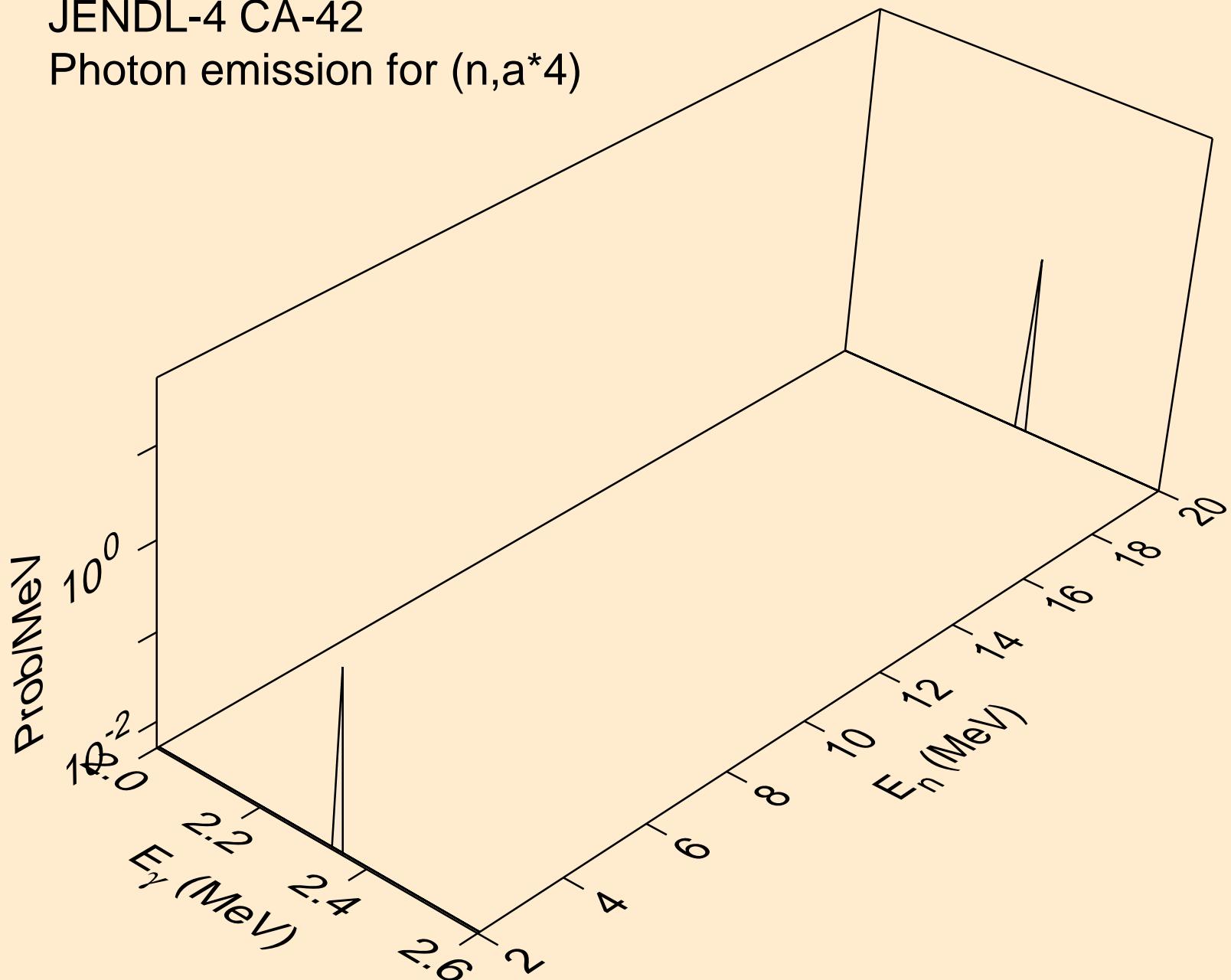
JENDL-4 CA-42  
Photon emission for  $(n,a^2)$



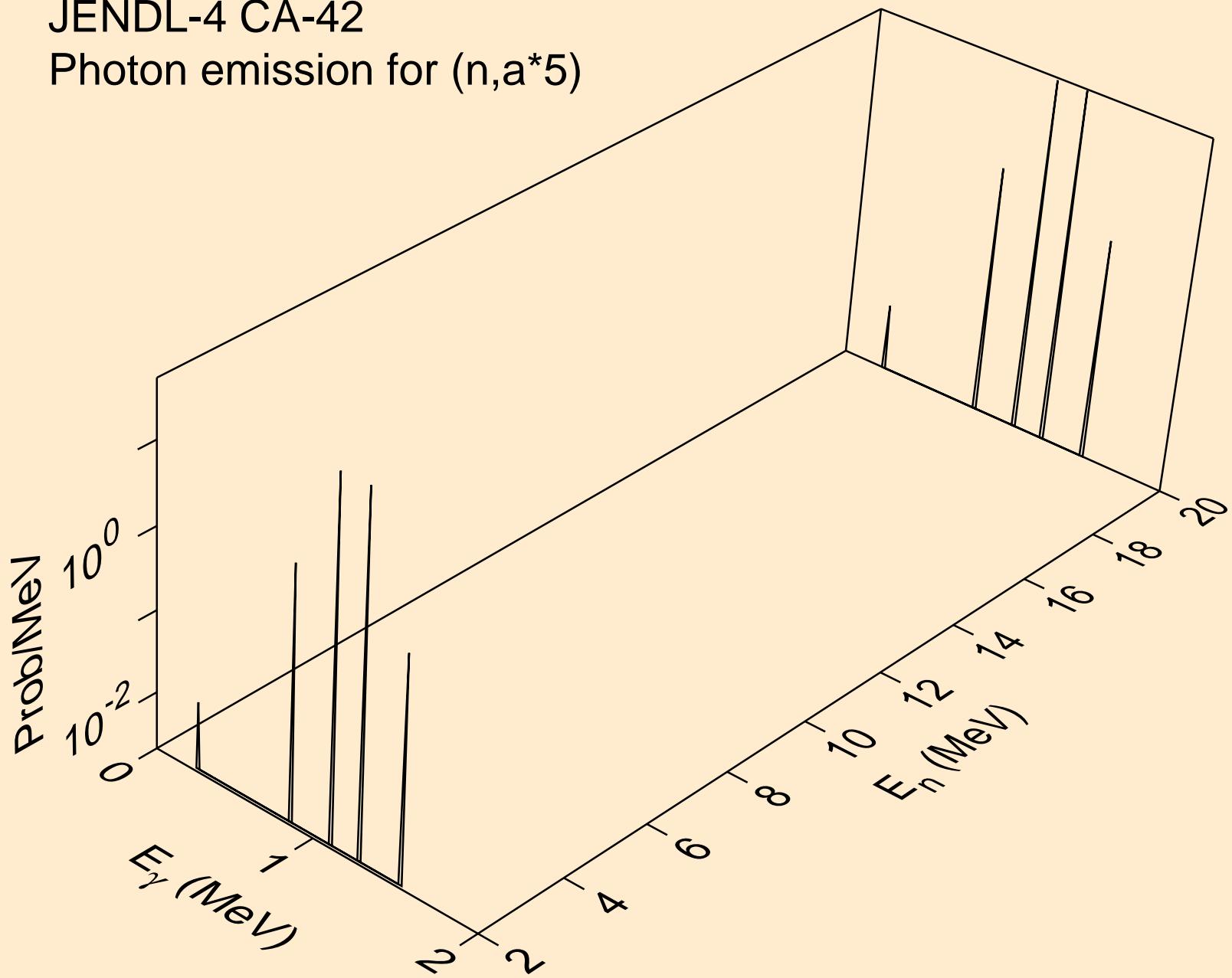
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Photon emission for  $(n,a^*3)$



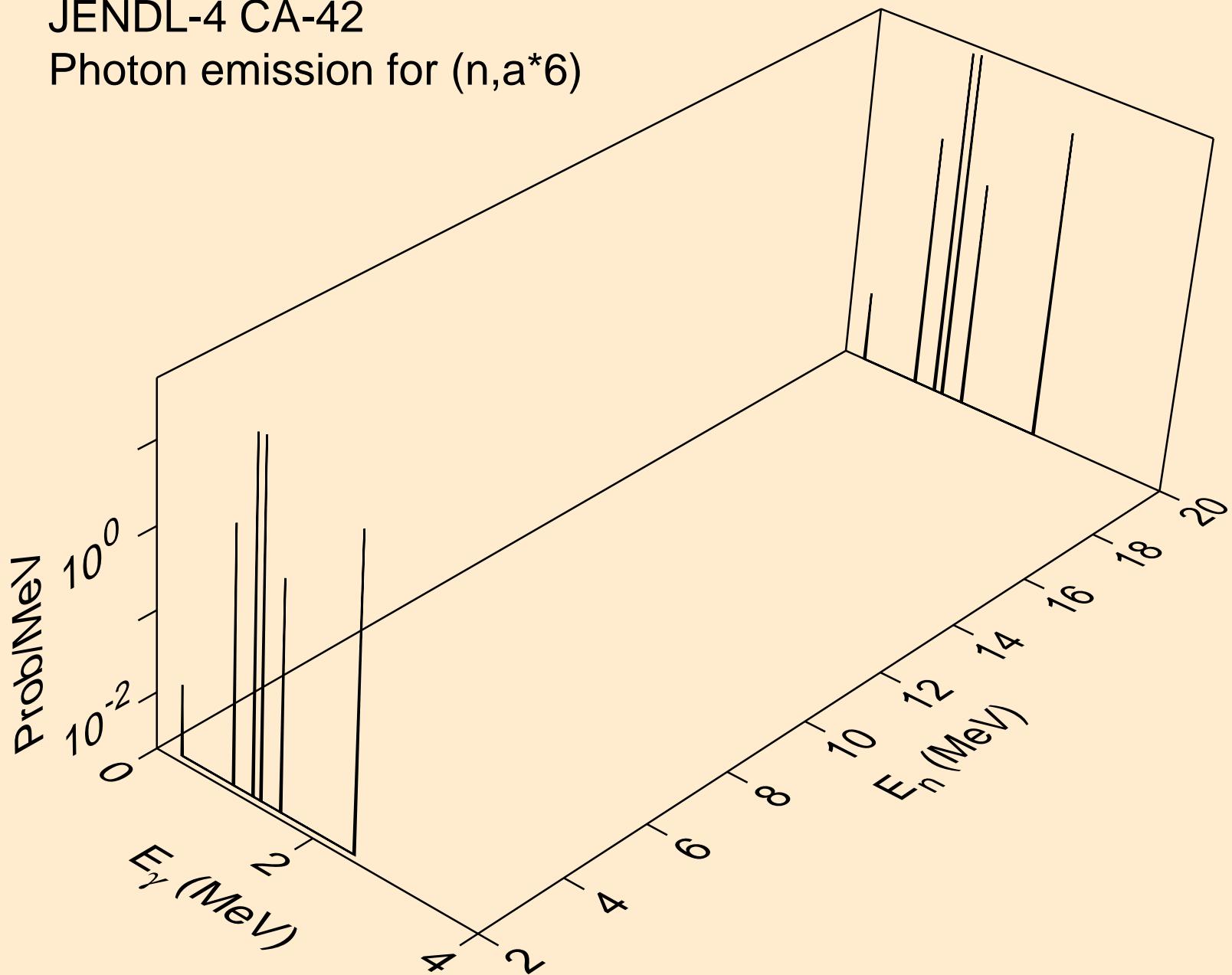
JENDL-4 CA-42  
Photon emission for  $(n, a^* 4)$



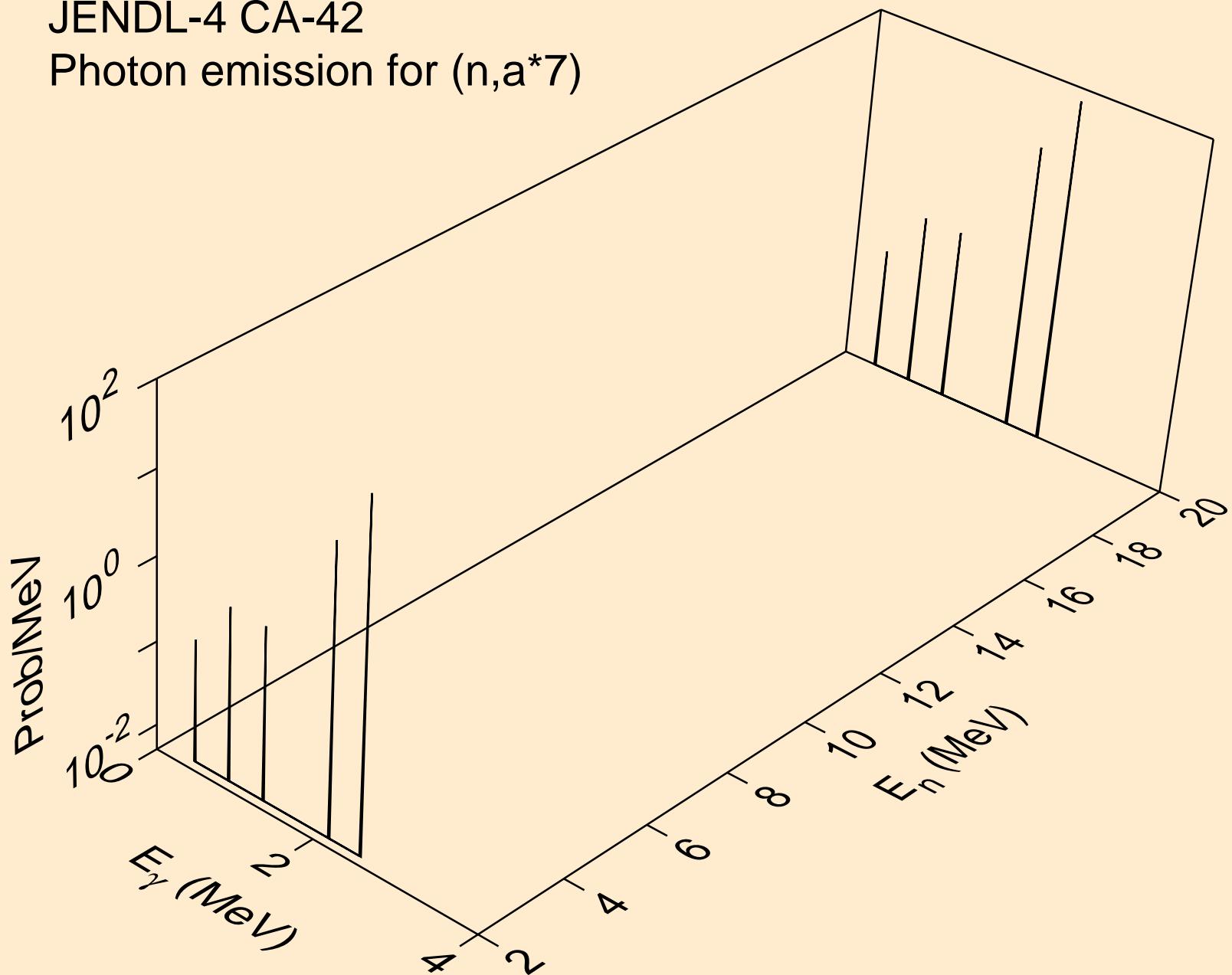
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Photon emission for  $(n,a^*5)$



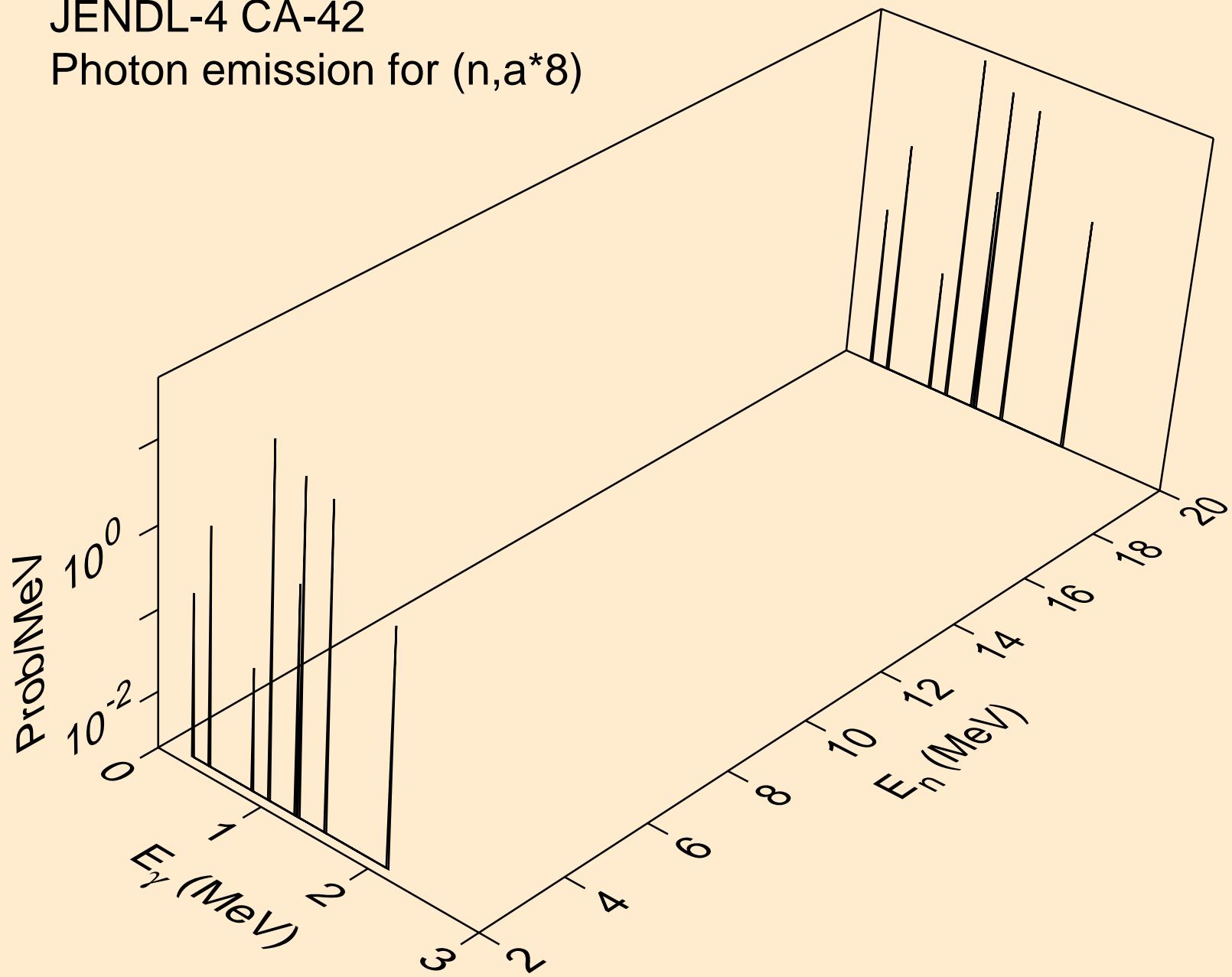
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Photon emission for  $(n,a^*6)$



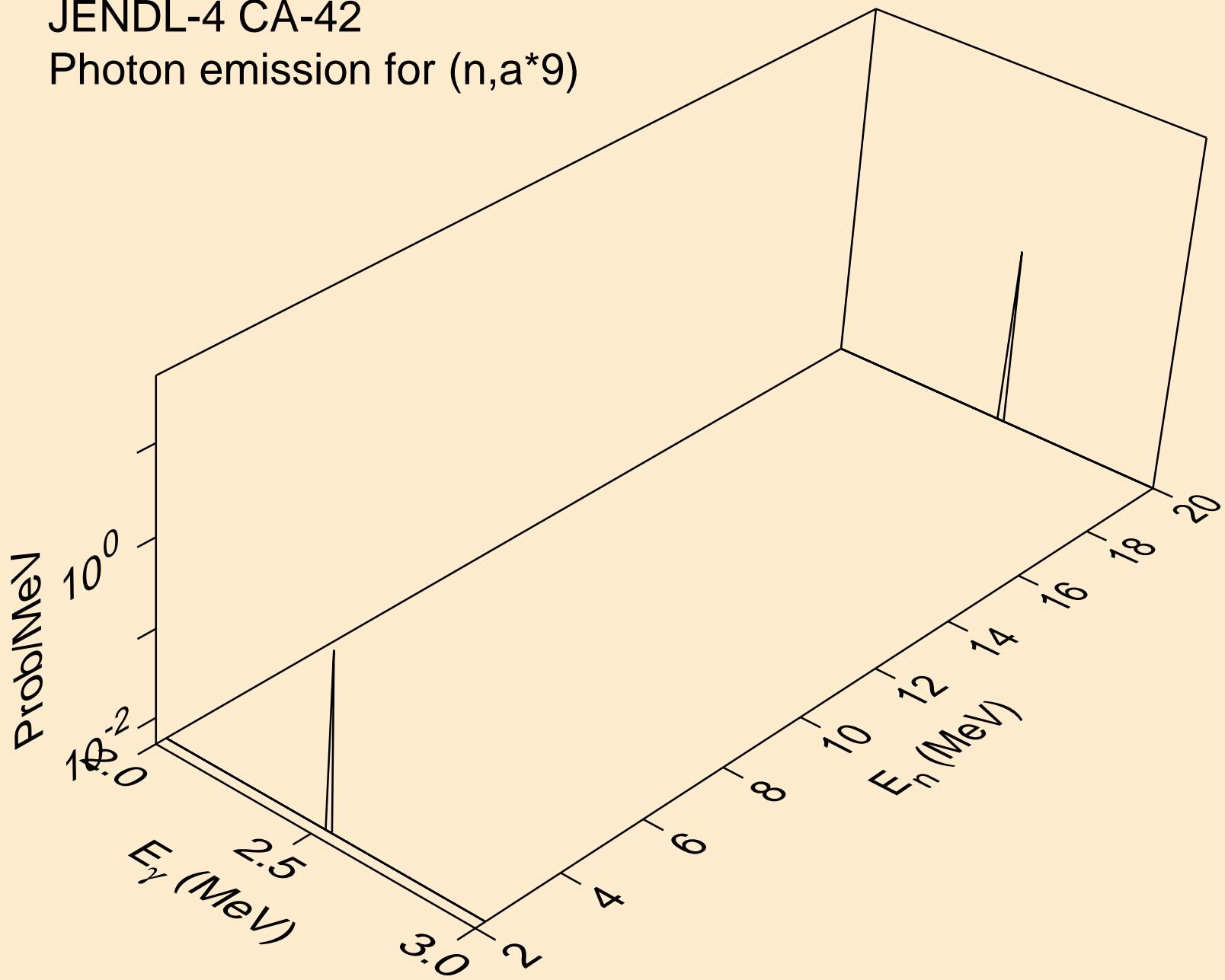
JENDL-4 CA-42  
Photon emission for  $(n,a^*7)$



JENDL-4 CA-42  
Photon emission for  $(n,a^*8)$

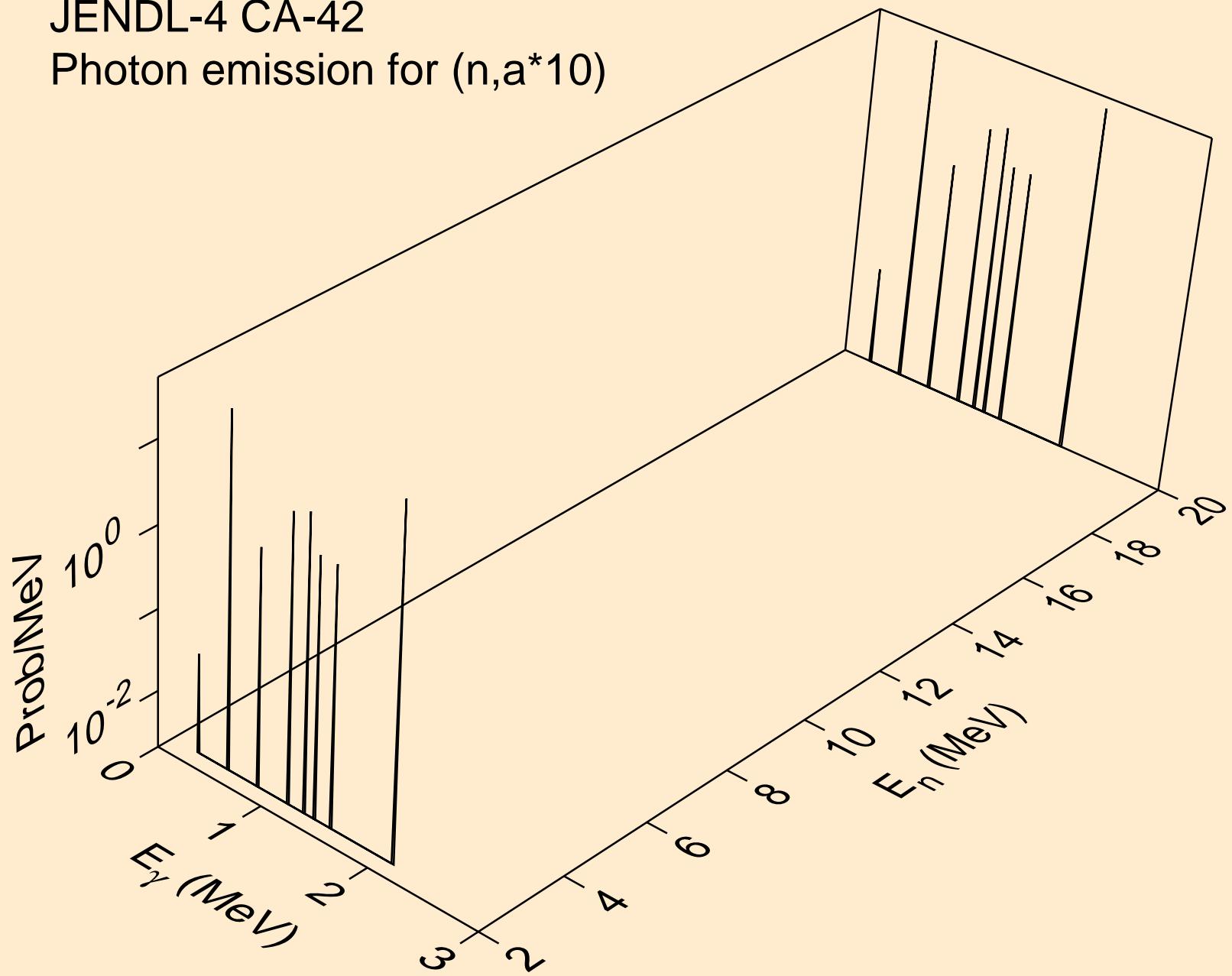


JENDL-4 CA-42  
Photon emission for  $(n,a^*9)$



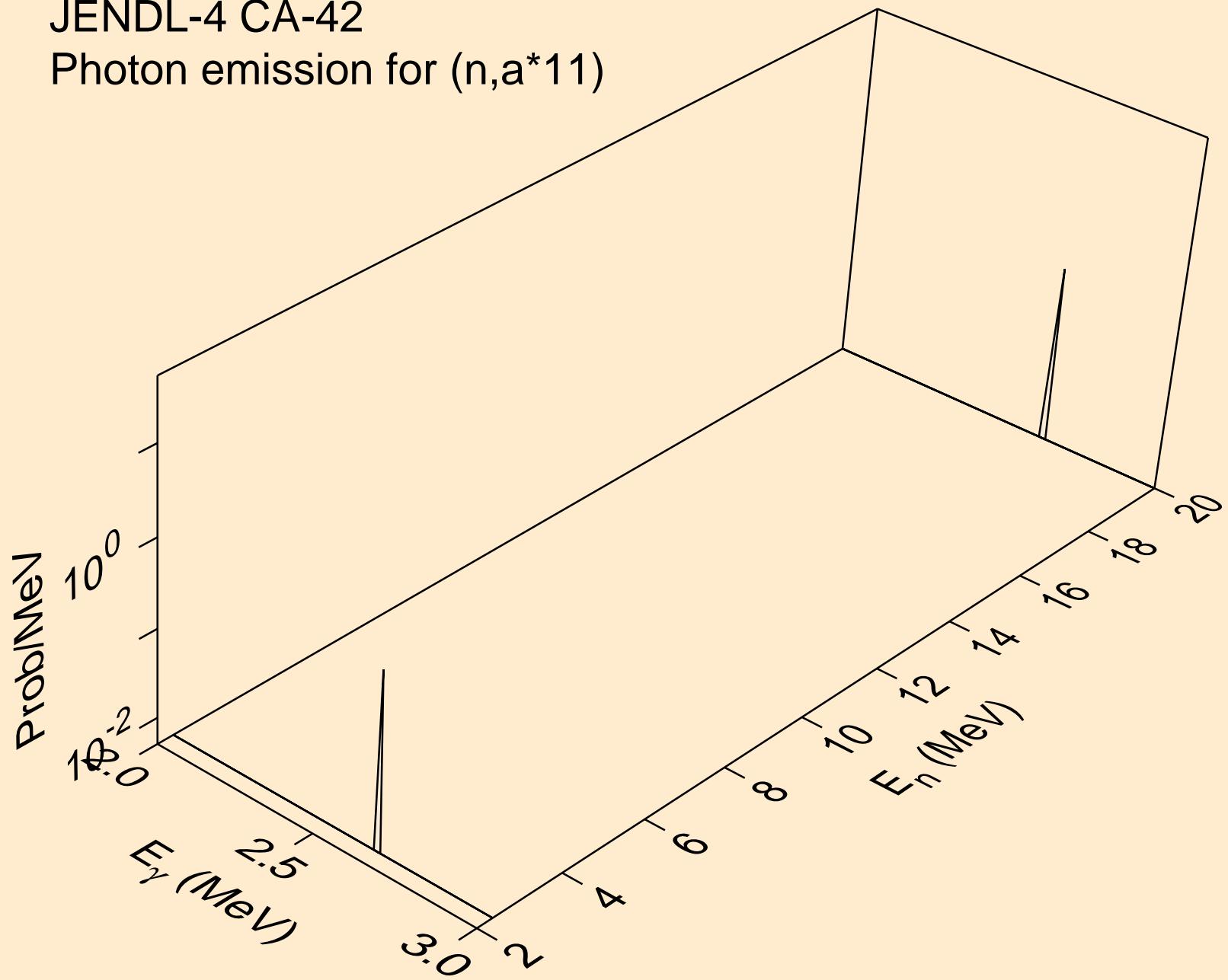
JENDL-4 CA-42

Photon emission for  $(n,a \times 10)$



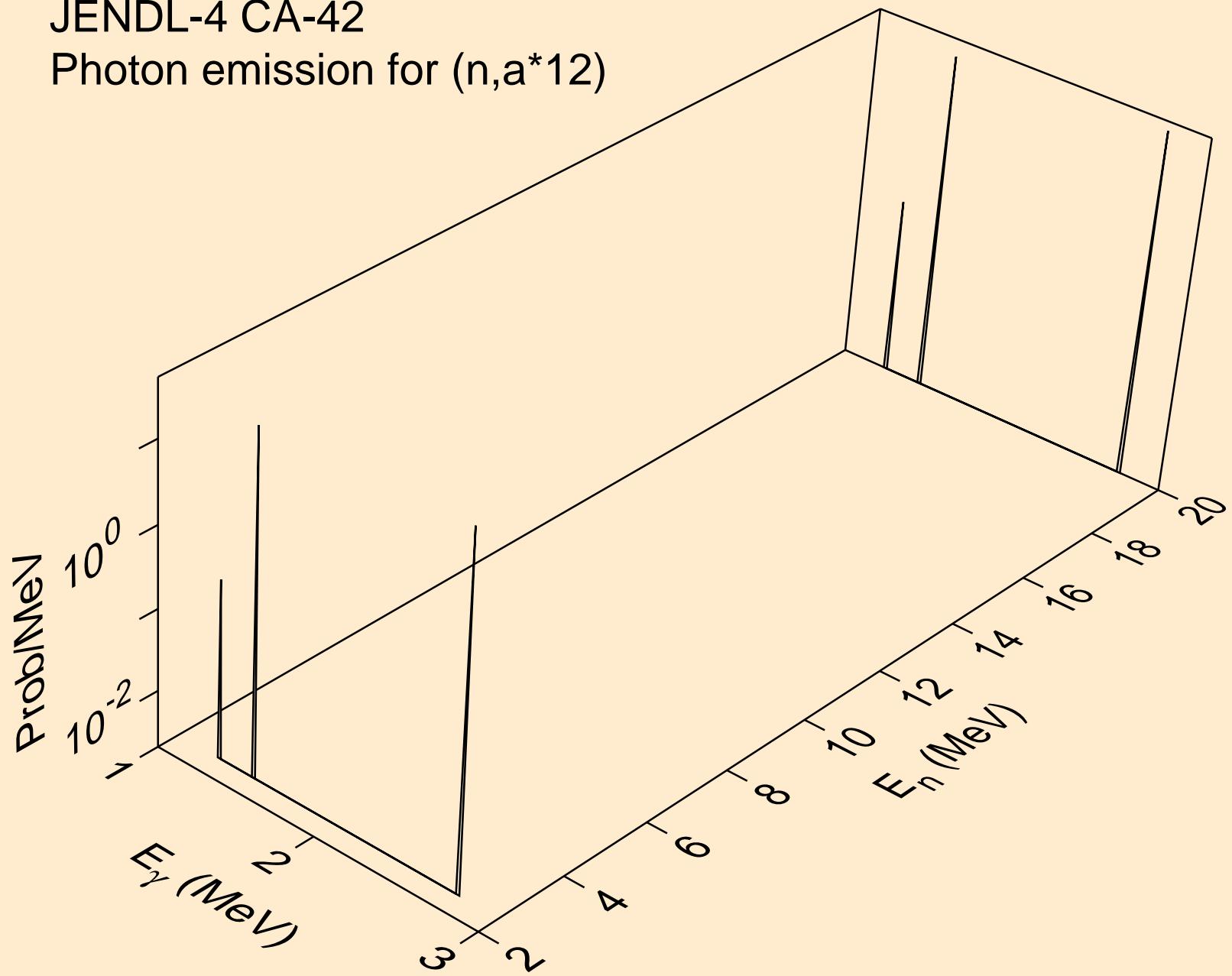
JENDL-4 CA-42

Photon emission for  $(n,a^{*}11)$



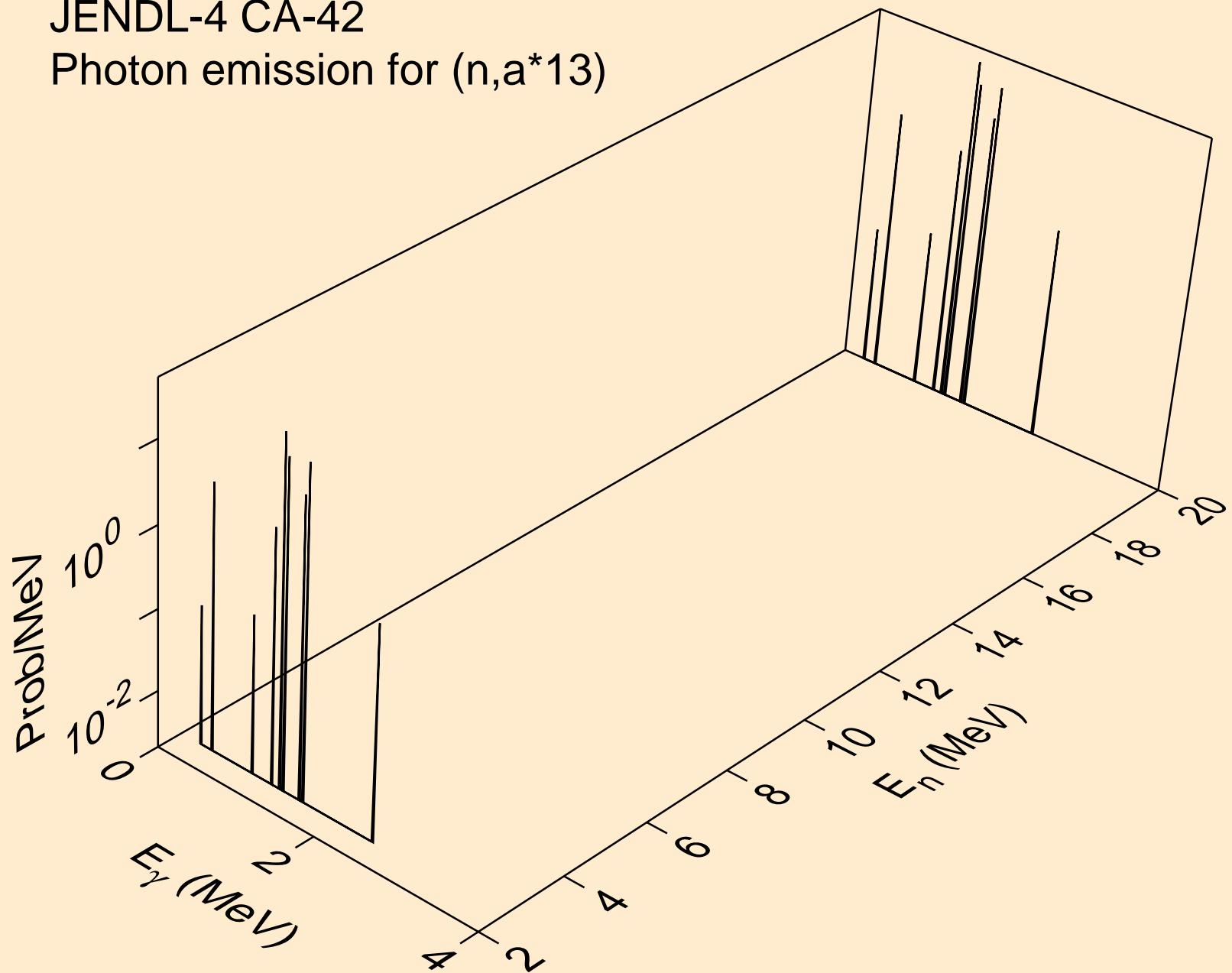
JENDL-4 CA-42

Photon emission for  $(n,a^*12)$



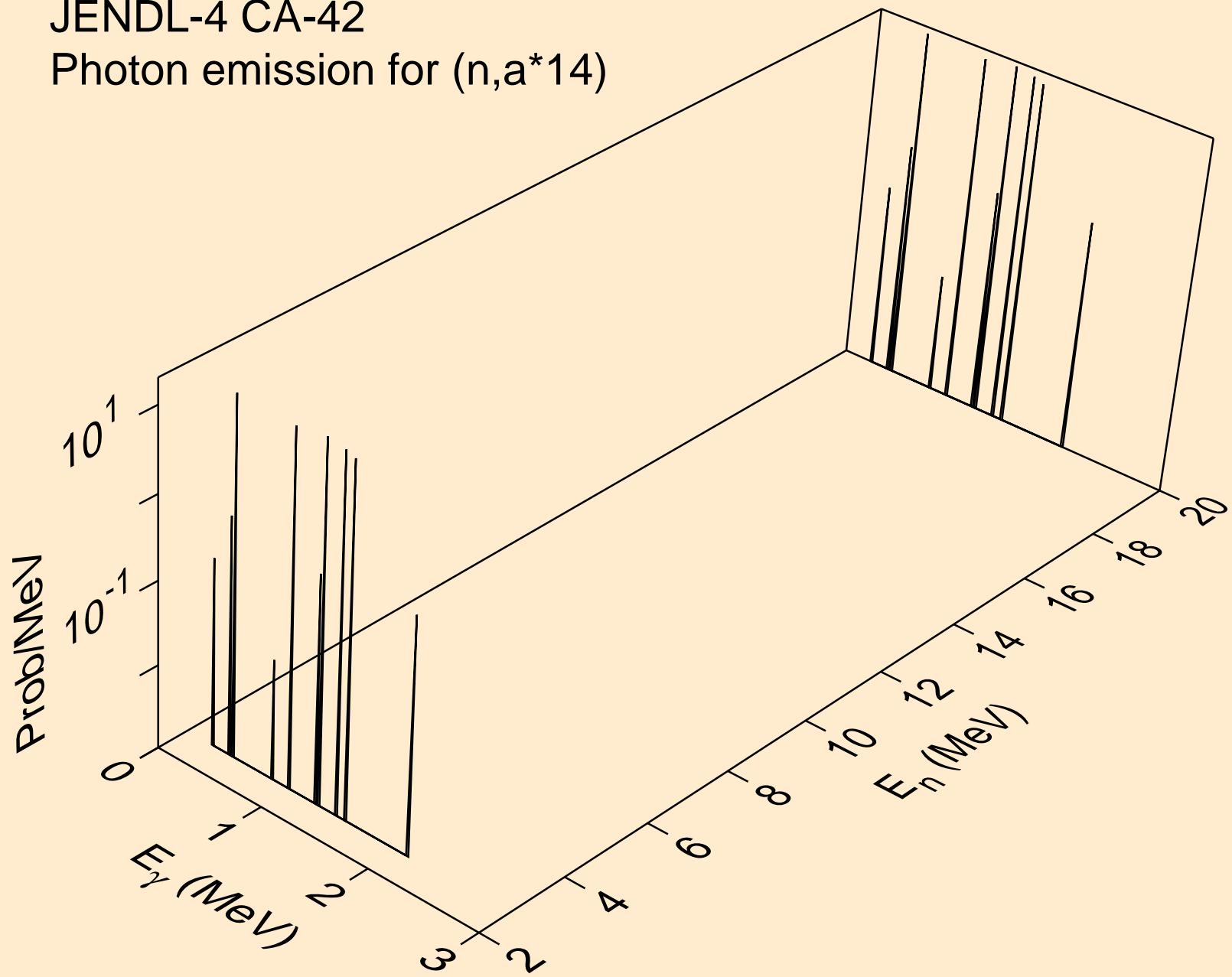
JENDL-4 CA-42

Photon emission for  $(n,a^*13)$



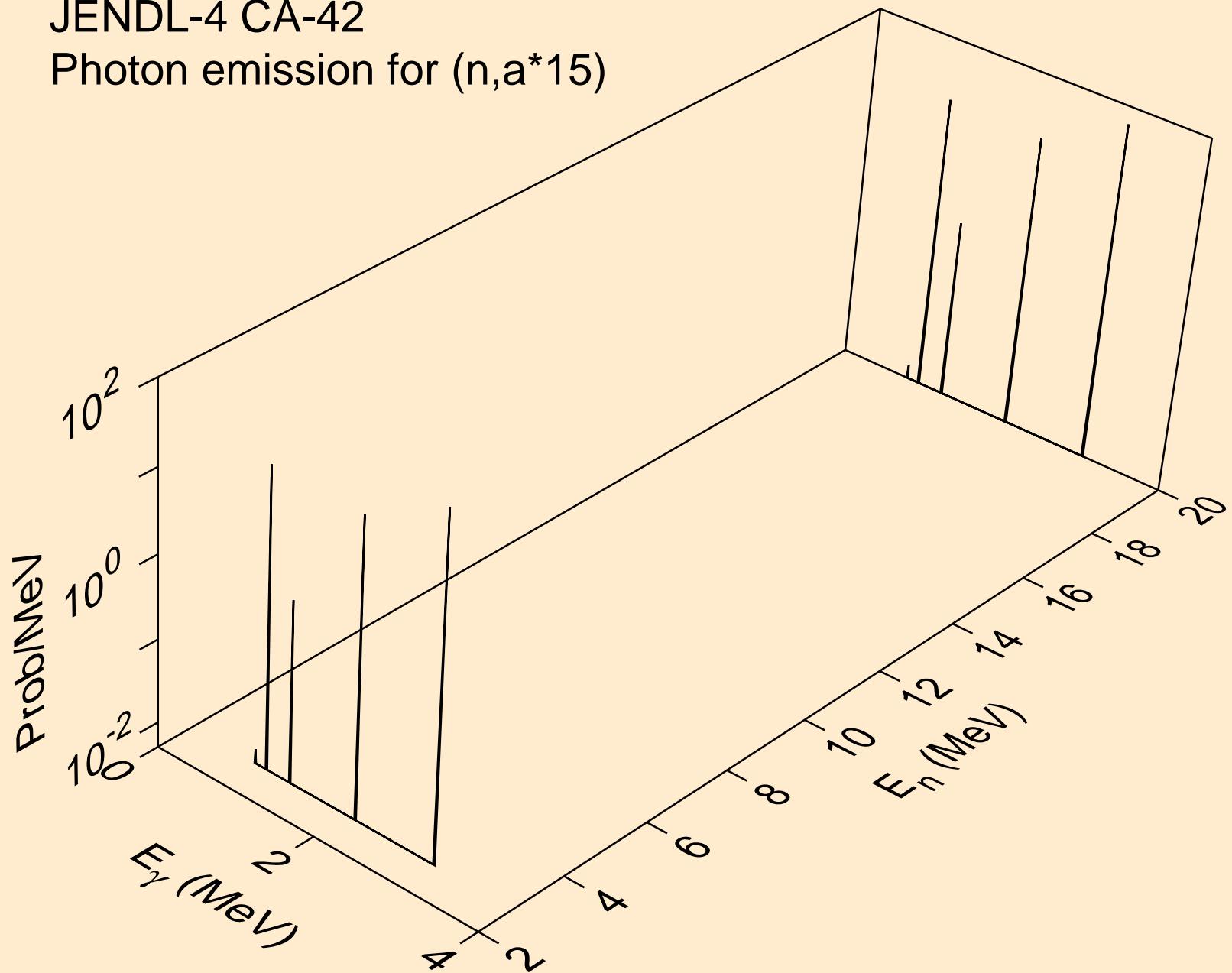
JENDL-4 CA-42

Photon emission for  $(n,a^*14)$



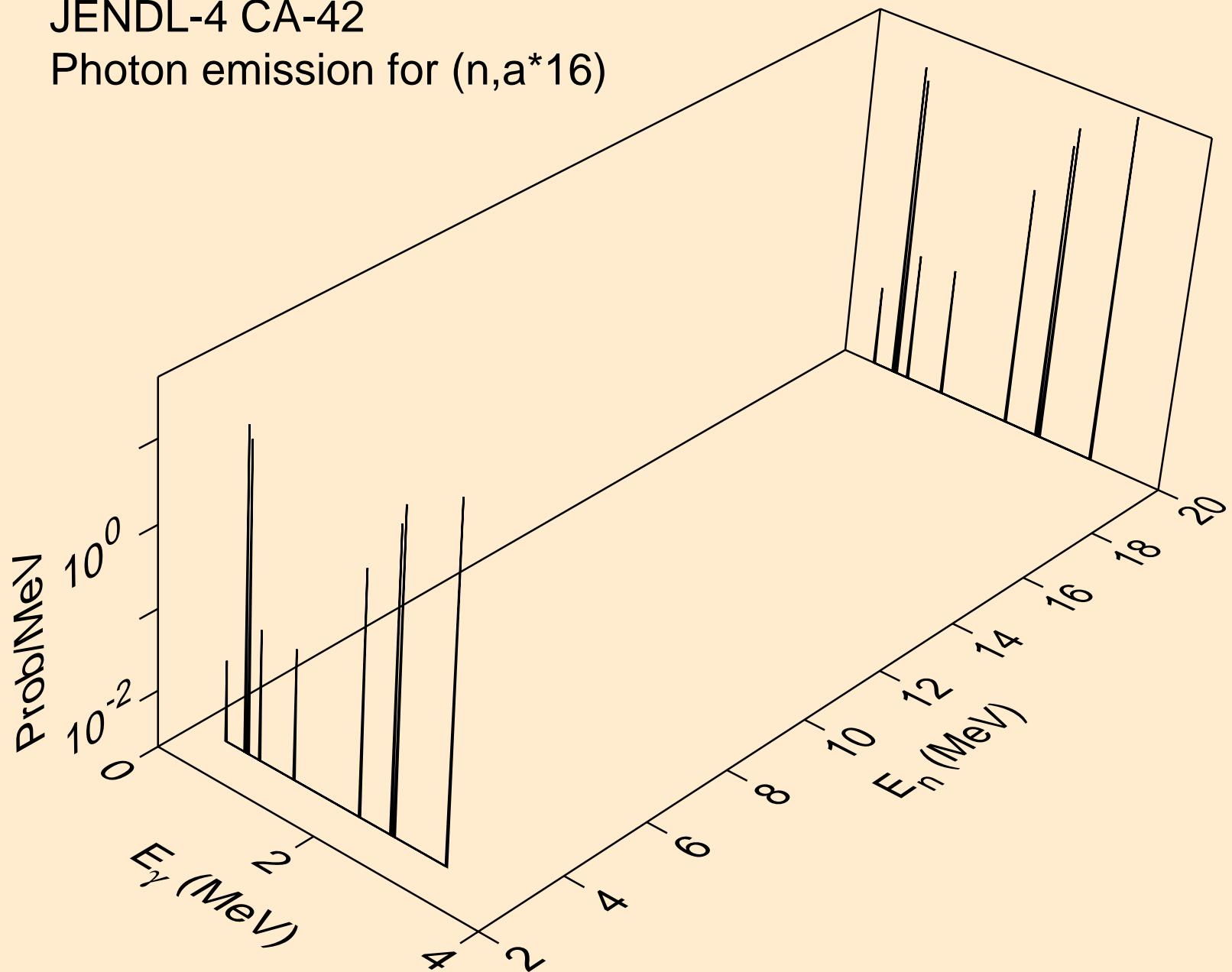
JENDL-4 CA-42

Photon emission for  $(n,a^*15)$

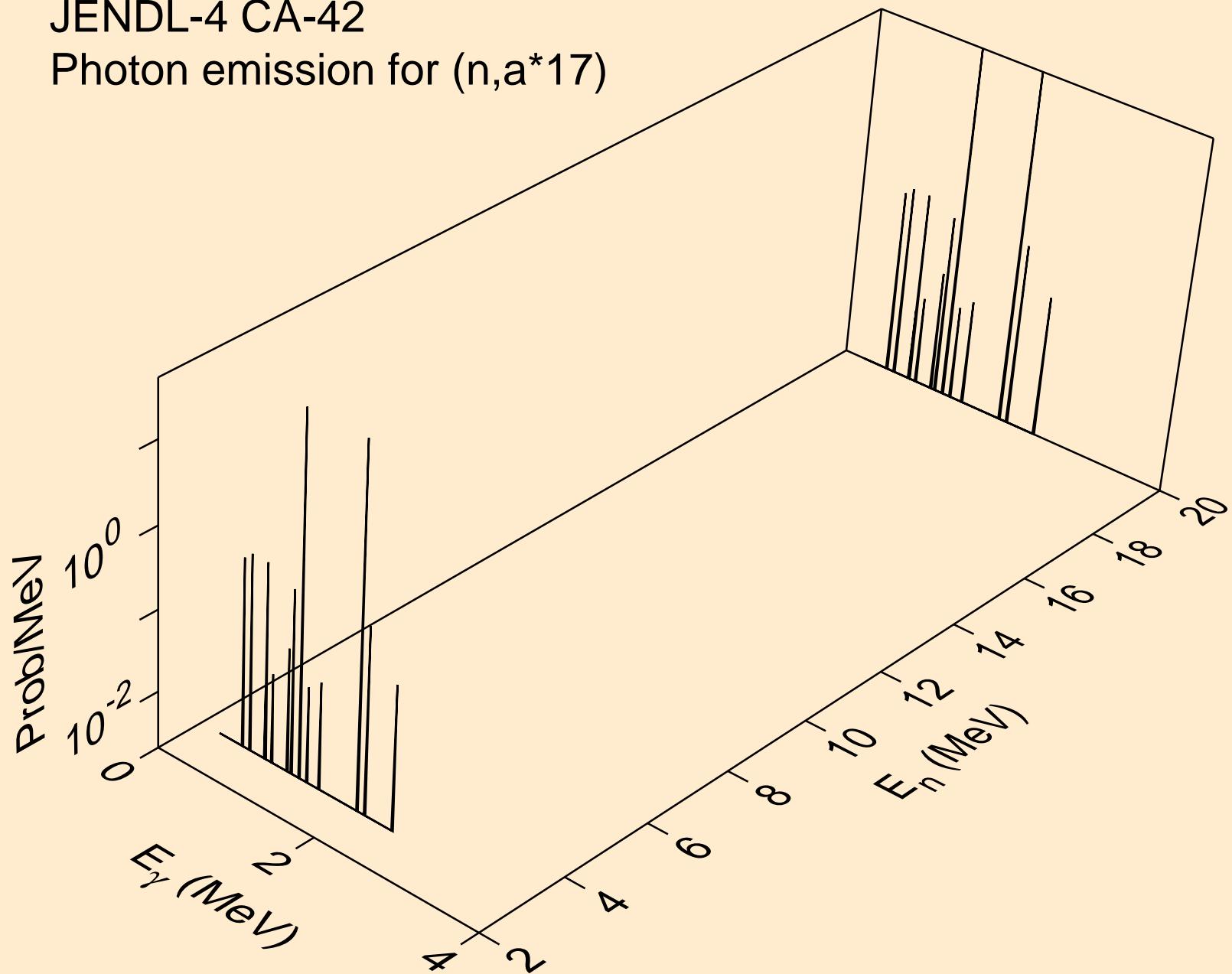


JENDL-4 CA-42

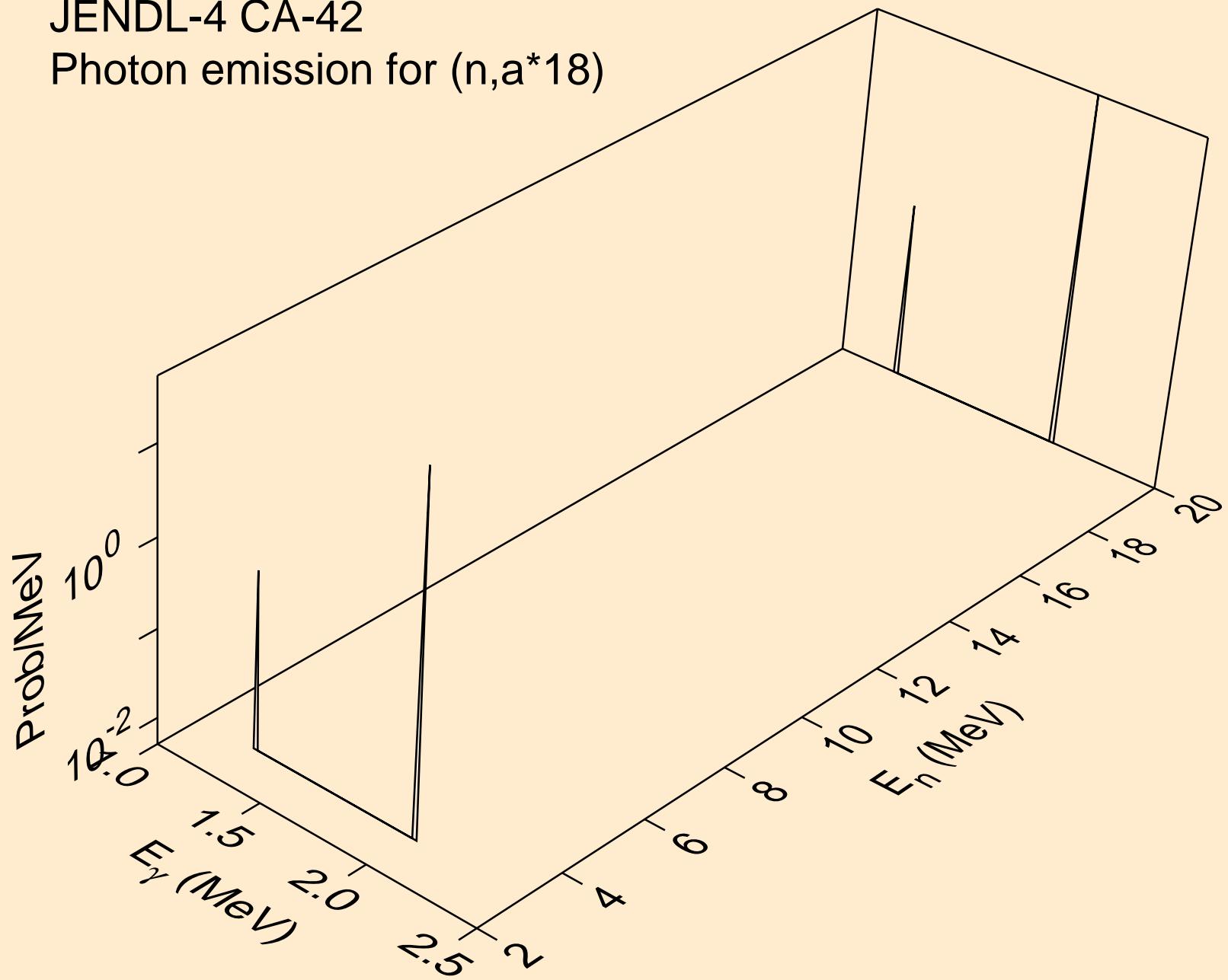
Photon emission for  $(n,a^*16)$



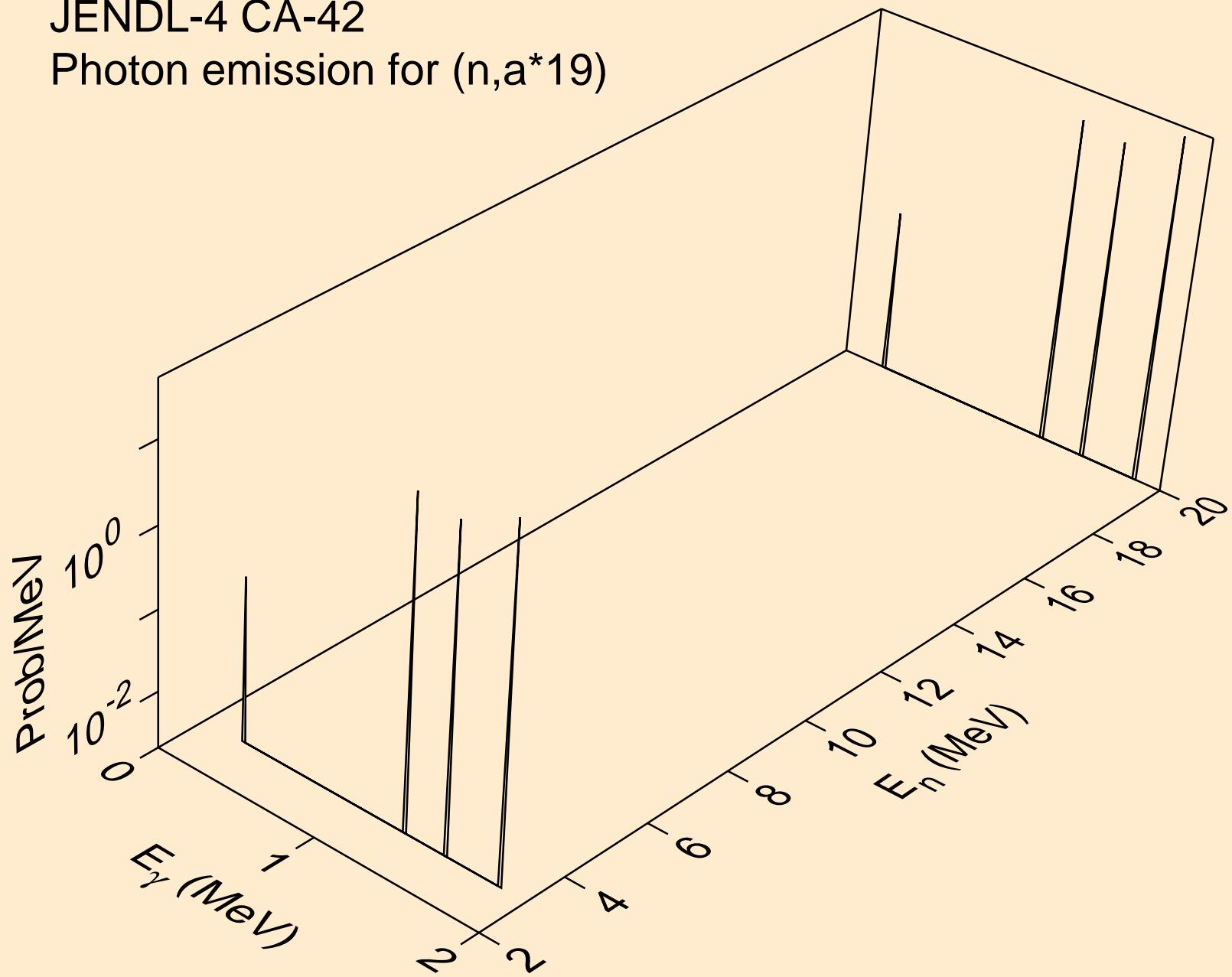
JENDL-4 CA-42  
Photon emission for  $(n,a^*17)$



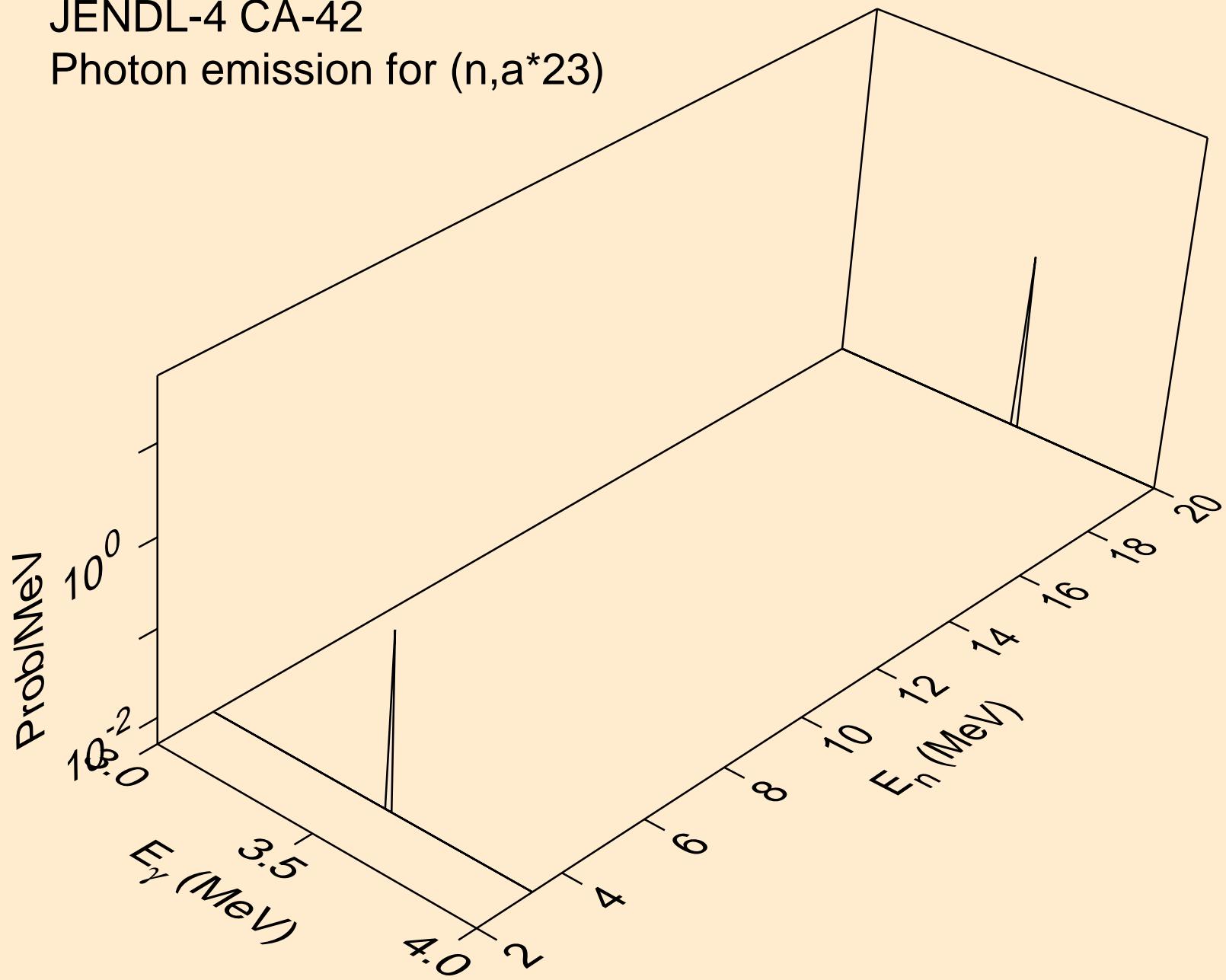
JENDL-4 CA-42  
Photon emission for  $(n,a^{*}18)$



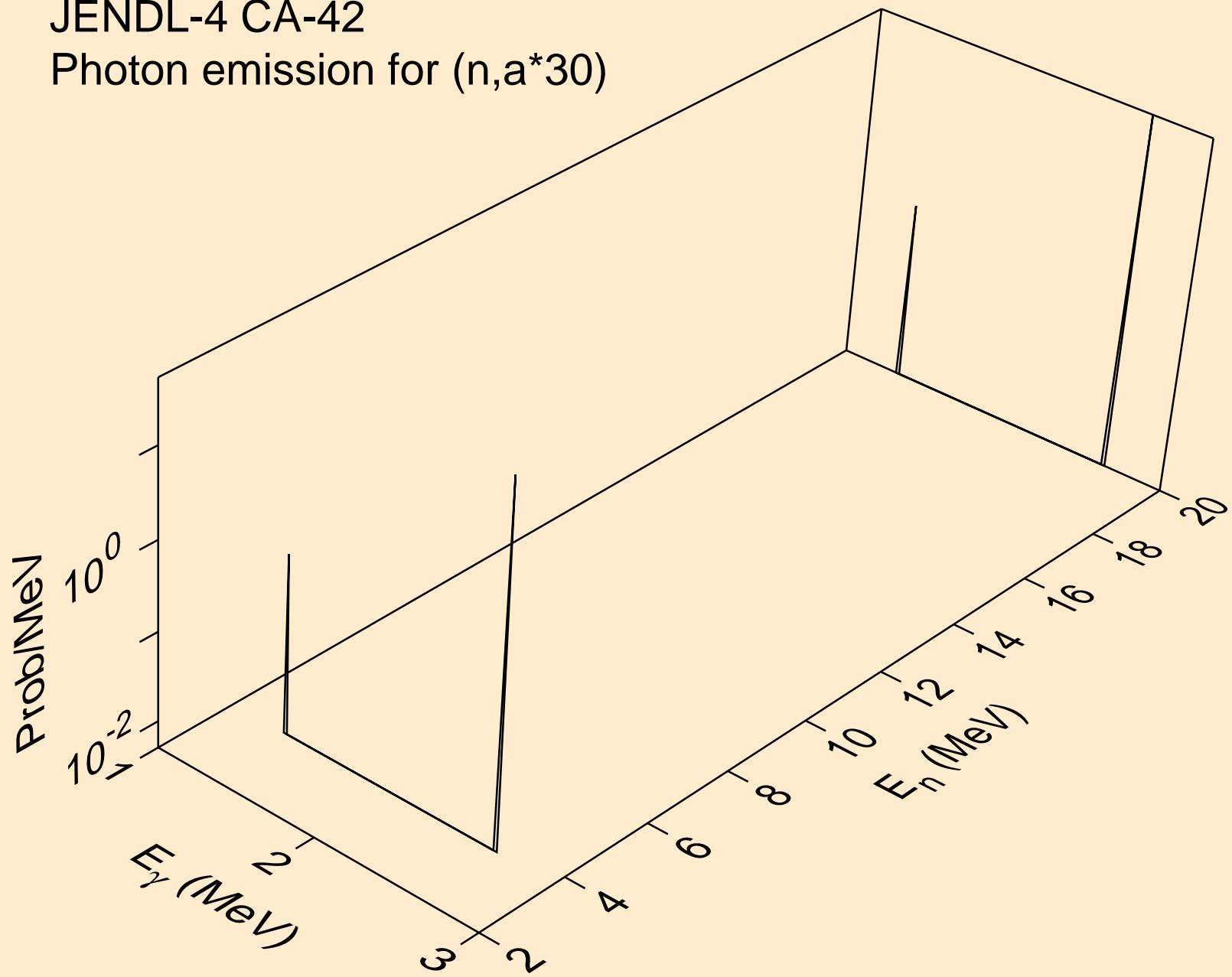
JENDL-4 CA-42  
Photon emission for  $(n,a^*19)$



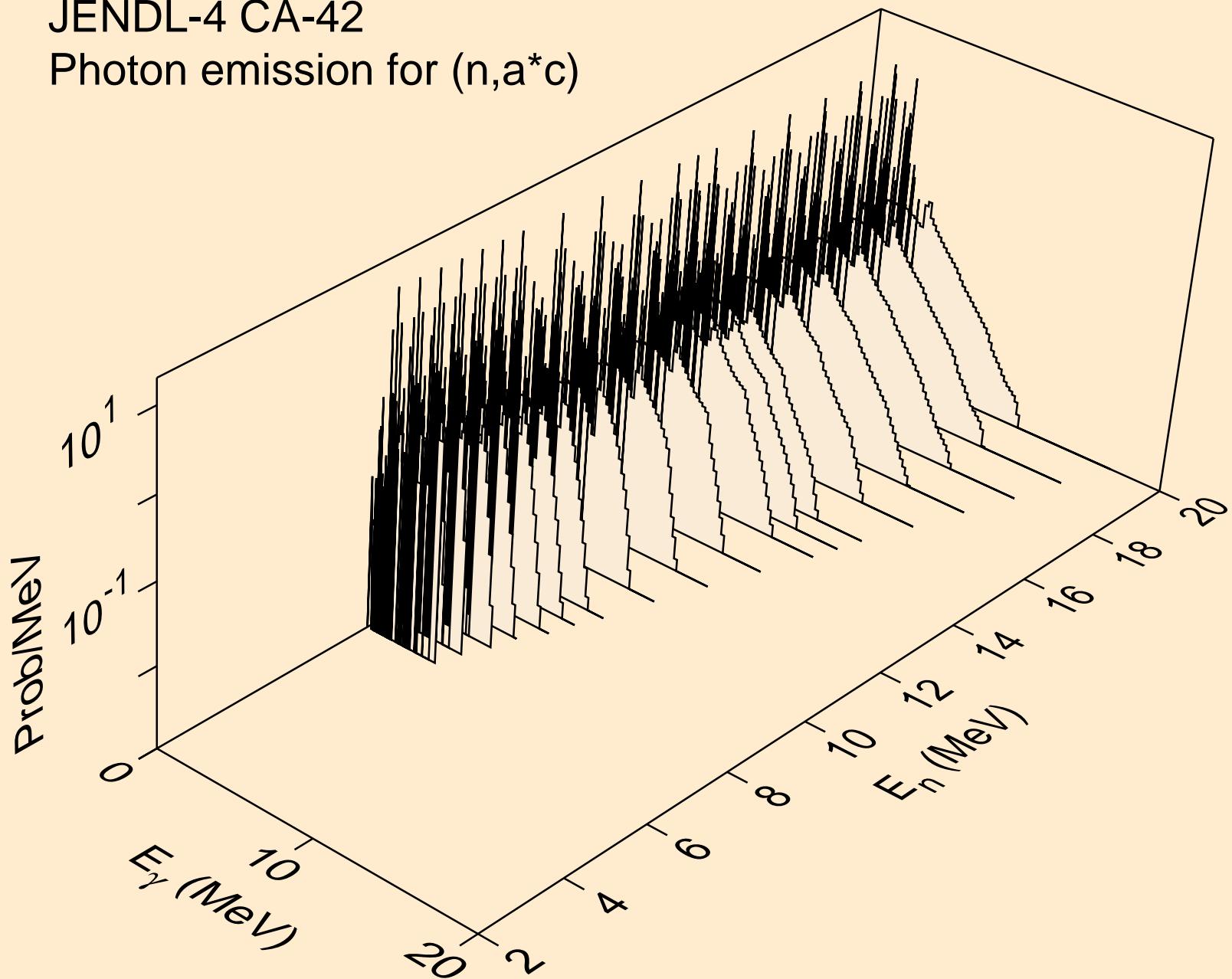
JENDL-4 CA-42  
Photon emission for  $(n,a^*23)$



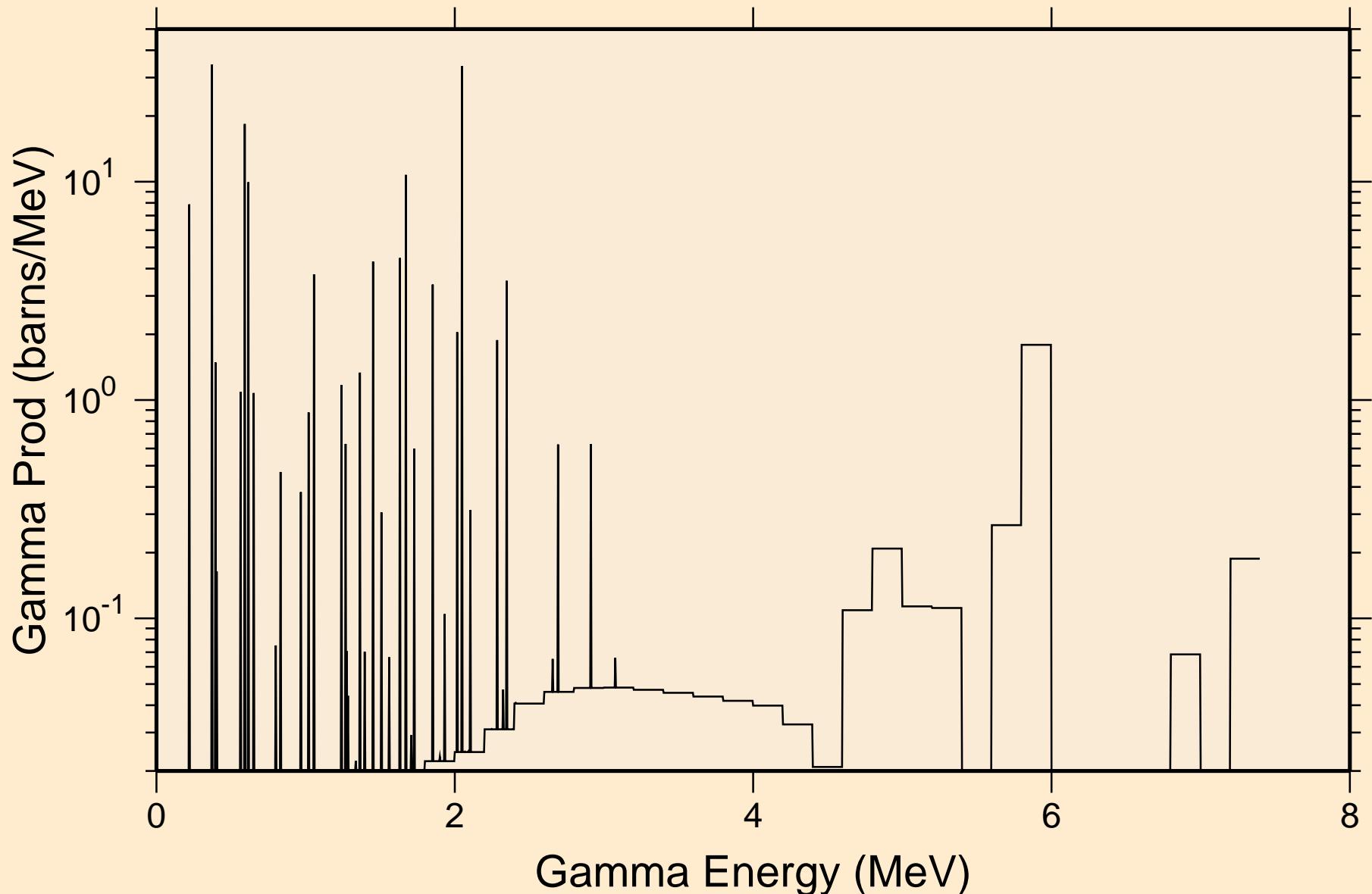
JENDL-4 CA-42  
Photon emission for  $(n,a^*30)$



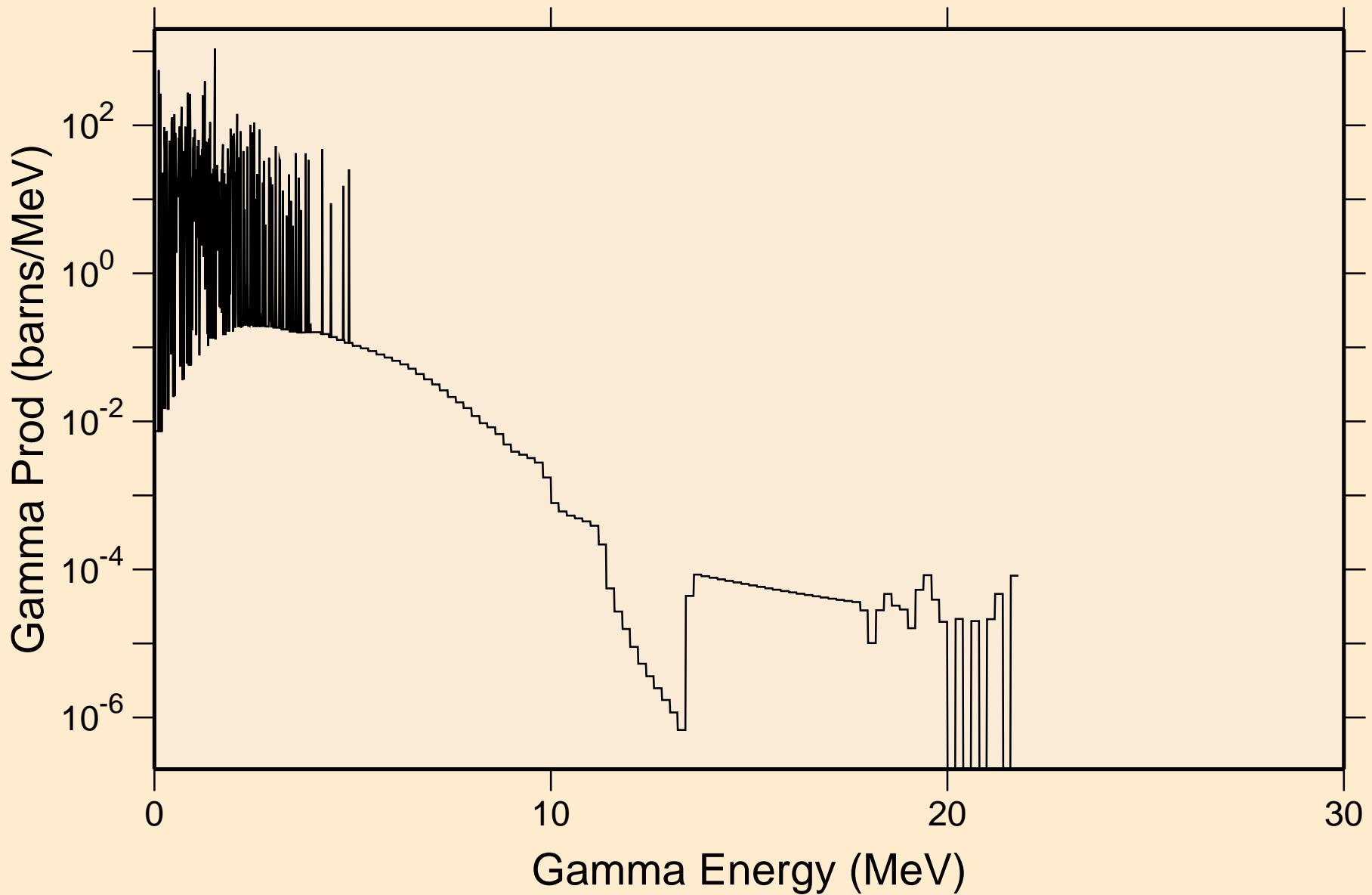
JENDL-4 CA-42  
Photon emission for  $(n, a^* c)$



JENDL-4 CA-42  
thermal capture photon spectrum

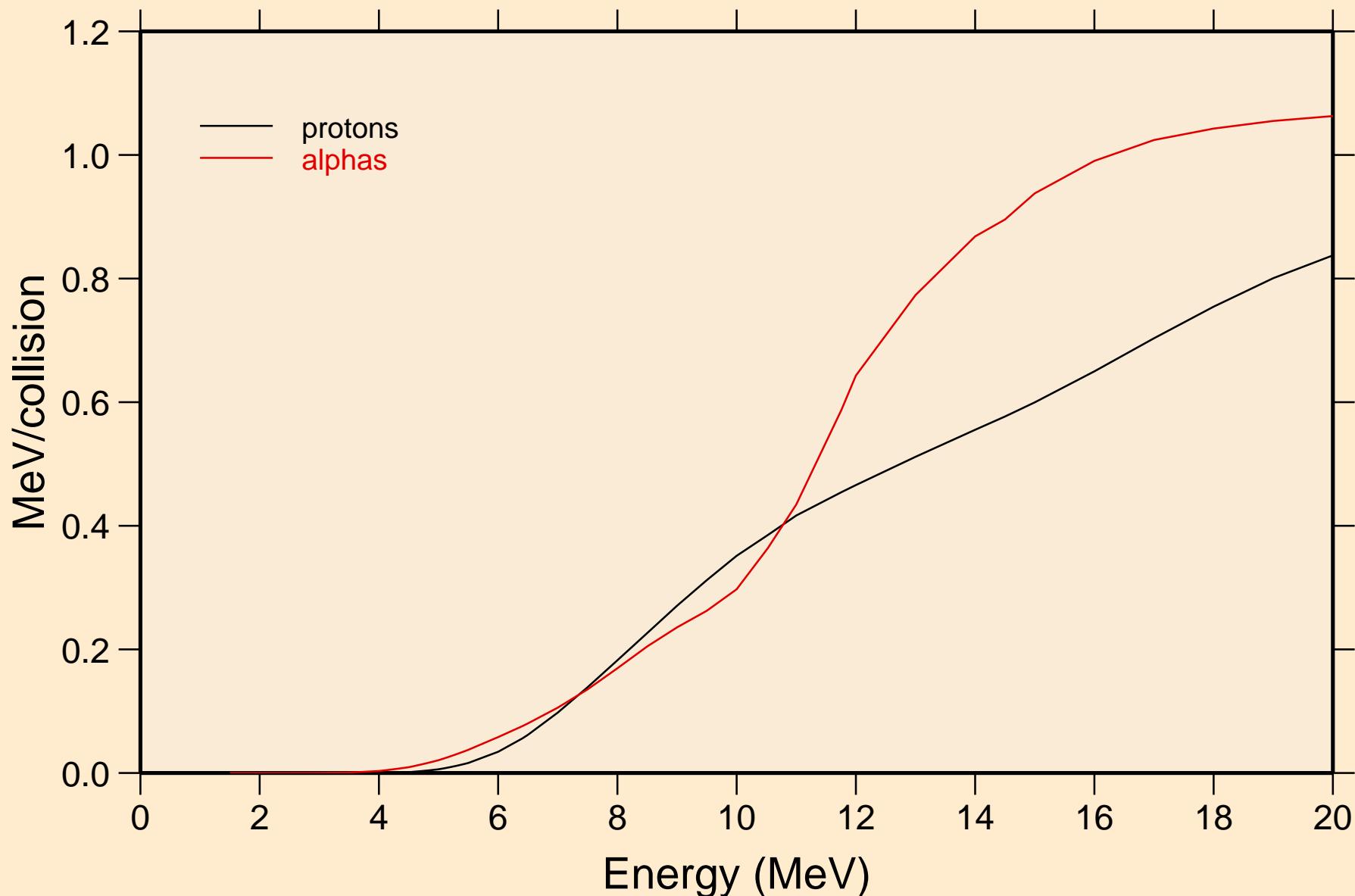


JENDL-4 CA-42  
14 MeV photon spectrum



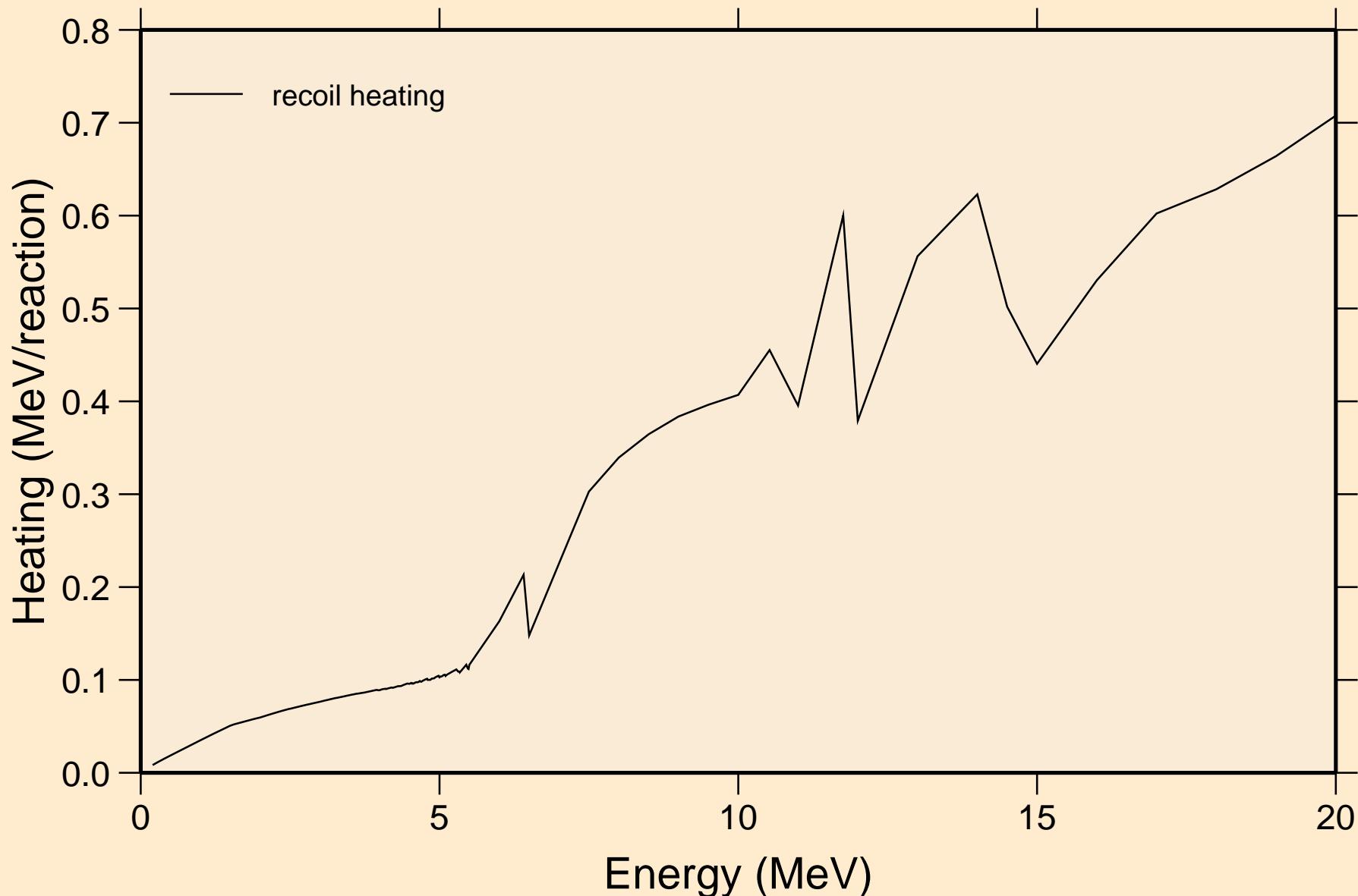
# JENDL-4 CA-42

## Particle heating contributions



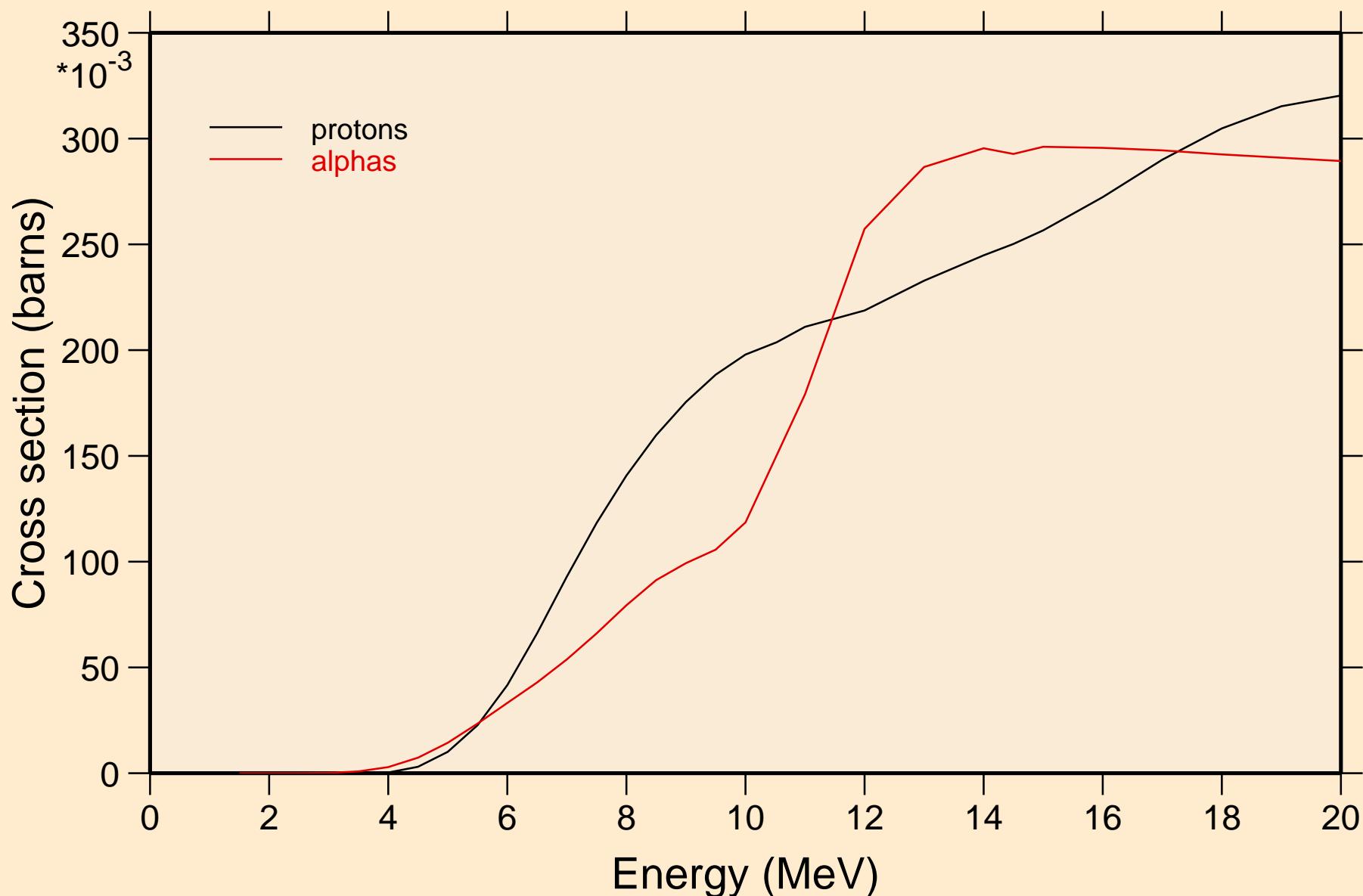
# JENDL-4 CA-42

## Recoil Heating

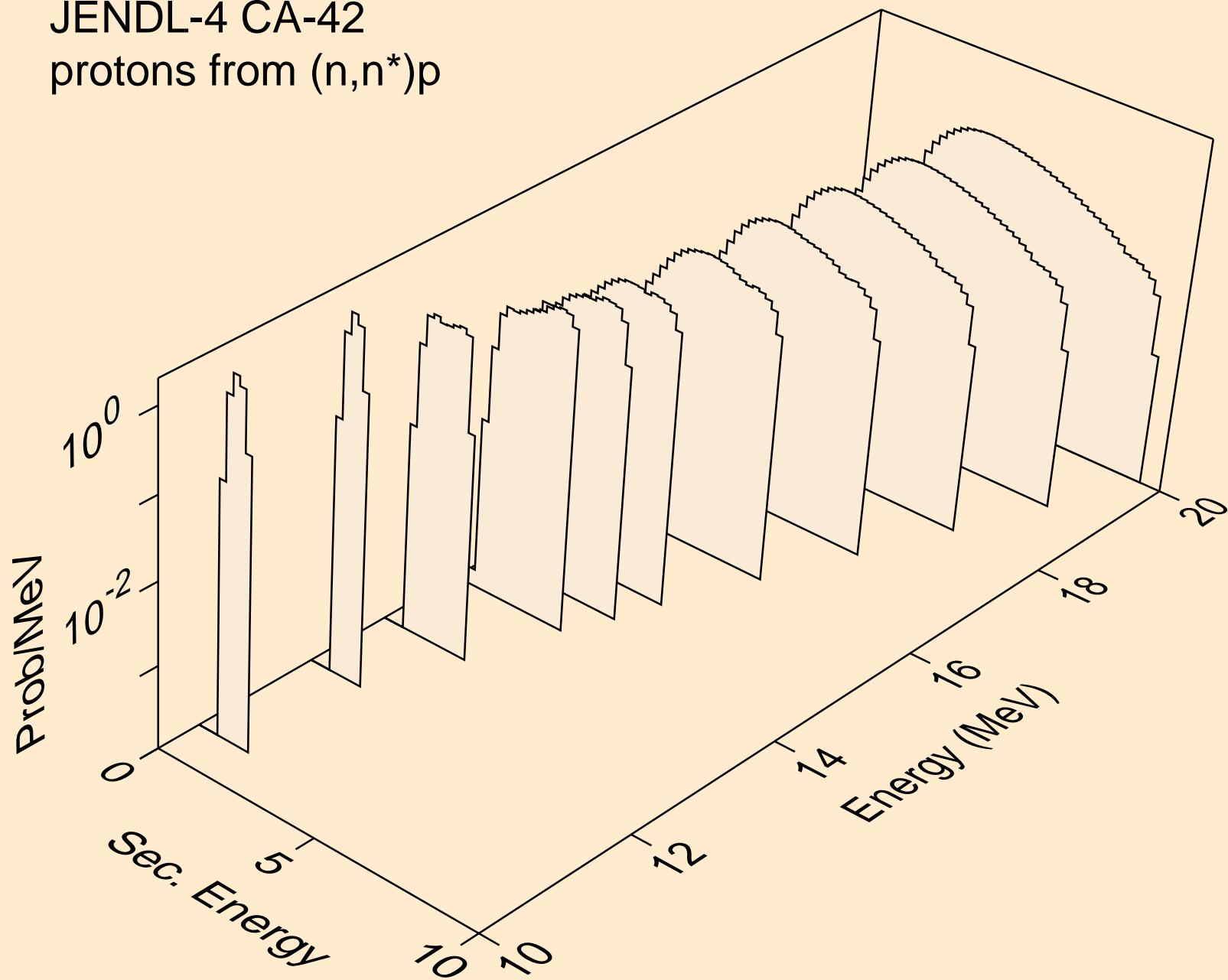


# JENDL-4 CA-42

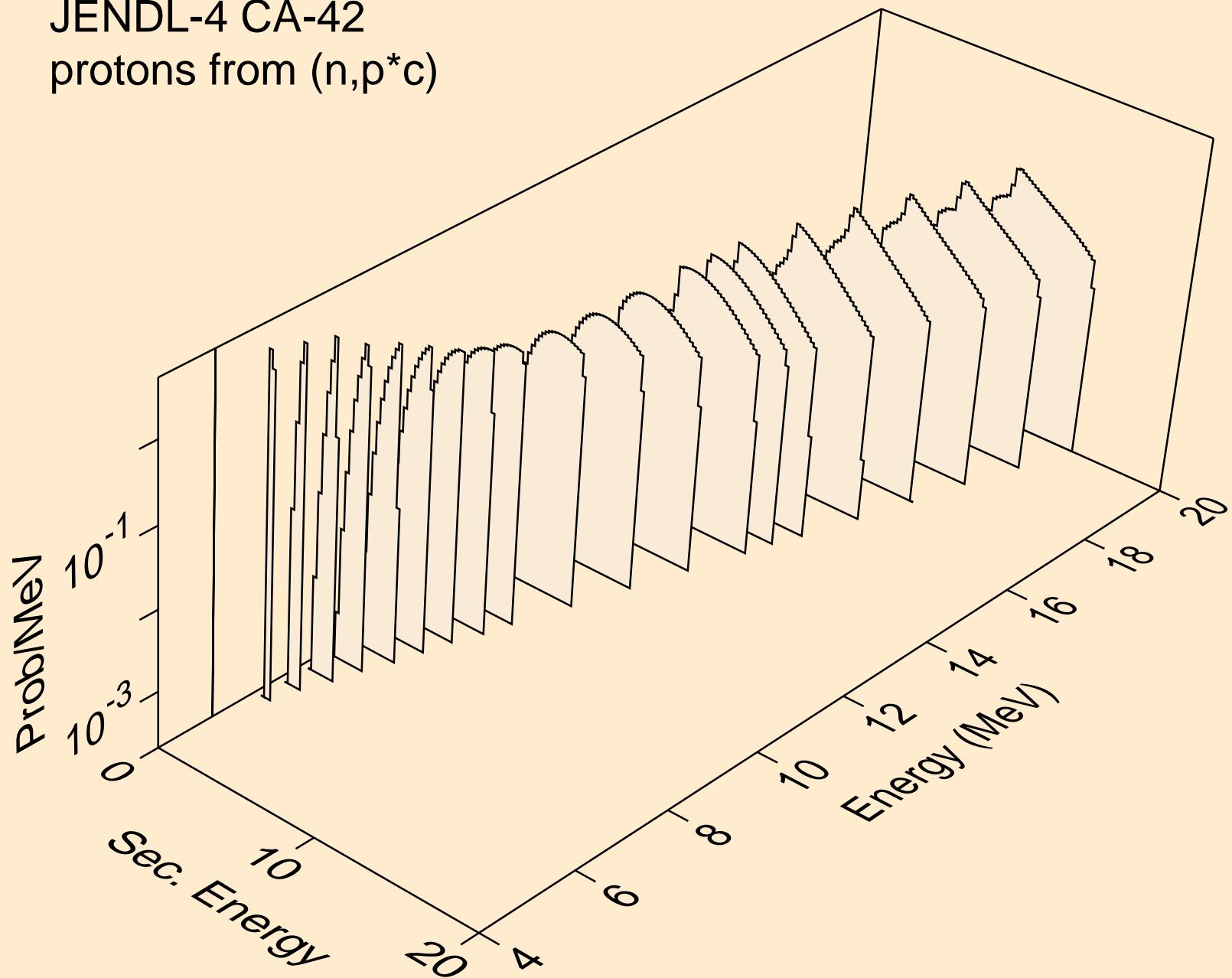
## Particle production cross sections



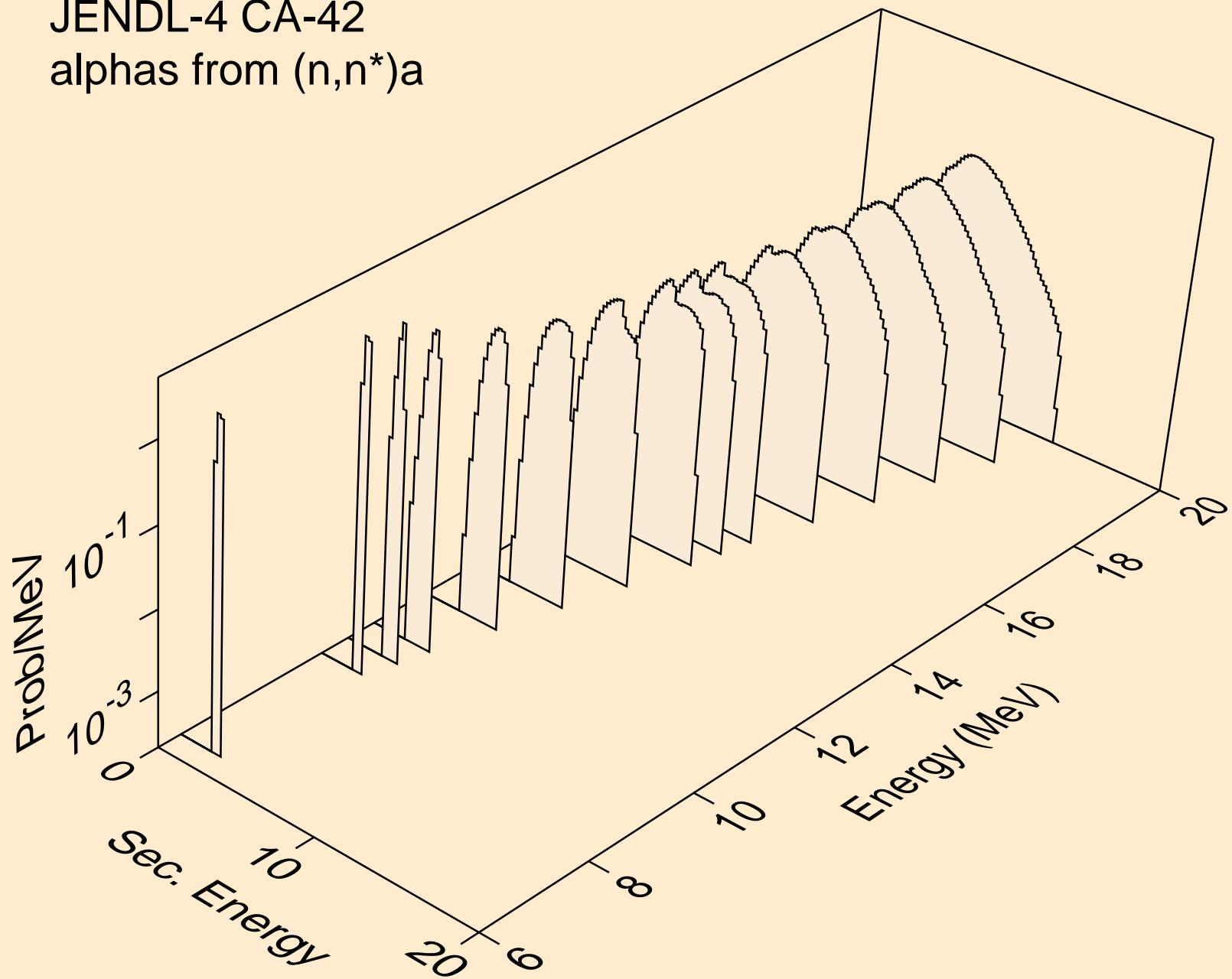
JENDL-4 CA-42  
protons from  $(n,n^*)p$



JENDL-4 CA-42  
protons from  $(n, p^*c)$



JENDL-4 CA-42  
alphas from  $(n,n^*)a$



JENDL-4 CA-42  
alphas from  $(n,a^*c)$

